



GOVERNMENT OF RAJASTHAN

PUBLIC WORKS DEPARTMENT

BASIC SCHEDULE OF RATES 2022

(EFFECTIVE FROM 28.09.2022)



- GENERAL BASIC RATES
- BUILDINGS WORKS
- SANITARY WORKS
- HORTICULTURE WORKS
- MISCELLANEOUS CIRCULARS

AVAILABLE WITH
EXECUTIVE ENGINEER,
PWD CITY DIVISION – II,
JAIPUR

Price : Rs 600.00



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FOREWORD

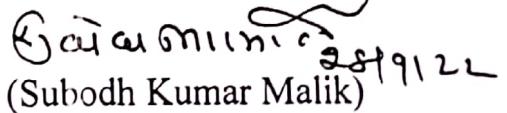
Under the present arrangement in PWD there are separate BSRs in use in each district, which are being revised time to time by the concerned circles. In this process no common basis is available for comparison of the rates of the same type / class of work in different areas. Thus, difficulties are being faced by the higher authorities while considering the tenders for sanctions. Therefore, it has been felt necessary to prepare an integrated P.W.D. Basic Schedule of Rates for building works all over the State adopting uniform rates for the items so that the trend in cost of works in various areas maybe watched on a common basis and in terms of the tender premium quoted. Keeping this in view and also to cut down the effort, time and above all the enormous cost of revising the BSRs time to time, a conscious decision in this behalf was taken and **SE city circle Jaipur** was assigned responsibility for framing the integrated BSR for whole of the State.

Accordingly this integrated P.W.D. Basic Schedule of Rates has been prepared incorporating items contained in the BSRs issued by the different circles. Simultaneously some commonly used new items, horticulture items and items related with energy efficiency are also added.

Although every possible care has been taken in preparation of this integrated BSR, it is enjoined upon all concerned to please point out to this office and SE, City Circle Jaipur office the errors and omissions, if any.

This integrated BSR is being issued for adoption by the individual Circles of the Department with immedieate effect i.e., from **28.09.2022**.

This integrated BSR has been prepared by Shri Anil Vijayvergiya, SE City Circle Jaipur and his team Shri Amit Girg, Xen, Shri Parminder Singh, Xen, Shri C.P. Jain, Xen, Shri Shailendra Khunteta, Xen and Mrs. Sanju, AEn(M). The work done by all officers associated with the preparation of the BSR is commendable and same is highly acknowledged.


(Subodh Kumar Malik)
Chief Engineer (Building)
Public Works Department,
Rajasthan, Jaipur

OFFICE OF THE CHIEF ENGINEER, P.W.D, RAJ JAIPUR

No. CE(B)/SE(Build)/PWD/BSR/2022/D-355

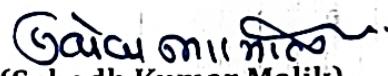
Dated:-28-09-2022

OFFICE ORDER

The Final Draft of PWD Integrated Building BSR 2022 submitted by the Superintending Engineer, PWD City Circle Jaipur has been *considered and approved* in BSR Approval Task Force Committee meeting held on 20.9.22 and 27.9.22 . The approval is hereby granted in exercise of the powers delegated to the undersigned under Clause 32 of the Schedule of Powers and CE & AS, PWD Office Order No. 830, Dt. 6-2-2018.

It is enjoined upon all the concerned to point out the errors and omissions, if any, to the **Superintending Engineer, PWD Circle City, Jaipur (The Nodal Officer for PWD Integrated Building BSR 2022)**. The **Superintending Engineer , PWD, City Circle , Jaipur** will ensure the online uploading of the approved PWD Integrated Building BSR 2022 on AFS/GWMS modules immediately. It is also directed that for all additions /deletions /omissions and ammendments (if any required for this BSR) the S.E. of concerned PWD Circle will submit the case with his recommendation to S.E. PWD City Circle Jaipur (the Nodal Officer) and S.E. City Circle Jaipur will analyse the case and after that he will submit the case to the C.E. (Bldg.) Jaipur along with his recommendation for approval as per rule. The printing of PWD Integrated Building BSR 2022 and procurement of hard copies will be carried out and ensured by the Superintending Engineer, PWD City Circle Jaipur.

The PWD Integrated Building BSR 2022 shall be applicable for all districts of Rajasthan and shall come into force with immediate effect i.e. since the date of issuance of this Office Order:


(Subodh Kumar Malik)
Chief Engineer (Building)
PWD Rajasthan, Jaipur

No. CE(B) /SE(Build)/PWD/BSR/ 2022/D-355

Dated:- 28 -09-2022

Copy submitted/forwarded to the following for information & necessary action:

1. PS to the Principal Secretary, PWD, Rajasthan, Jaipur.
2. PS to the Secretary, PWD, Rajasthan, Jaipur
3. The Chief Engineer & Addl. Secretary, PWD Rajasthan, Jaipur.
4. Chief Engineer (Bldg)/Road/PMGSY/NH/Elect./QC, PWD, Rajasthan, Jaipur.
5. The Managing Director, RSRDCC, Jhalana Doongaree, Jaipur
6. The Financial Advisor, PWD, Rajasthan, Jaipur.
7. The Addl. Chief Engineer, PWD Zone..... (All) ,
8. The Superintending Engineer, PWD, Circle..... (All)
9. The Superintending Engineer (Build I/II), PWD Rajasthan ,Jaipur
10. The Executive Engineer, PWD Division..... (All)


Chief Engineer (Building),
PWD Rajasthan, Jaipur

INPUTS			
BASIC RATES OF MECHINERY			
CODE	NAME OF MECHINERY	UNIT	RATE
1	Hire charges of Coaltar Boiler 900 to 1400 litres	Day	870.00
2	Hire charges of Concrete Mixer 0.14 cubic metre	Day	1300.00
3	Hire charges of Diesel Road Roller - 8 to 10 tonne	Day	1730.00
4	Production cost of concrete by batch mix plant.	cum	500.00
5	Hire charges of Diesel Truck - 9 tonne	Day	1500.00
6	Hire charges of Spraying machine including electric charges	Day	450.00
7	Hire charges of Coaltar Sprayer	Day	400.00
8	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	Day	8900.00
9	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	Cum	150.00
10	Hire charges of Derrickmonkey rope	Day	635.00
11	Hire charges of Pumpset of capacity 4000 litres/hour.	Day	1200.00
12	Vibrator(Needle type 40mm)	Day	800.00
13	Machine for rubbing of floors with driver & car	Day	1000.00
14	Front end loader	Day	7600.00
16	Mastic Cooker	Day	635.00
17	Hire and running charges of tipper	Day	1390.00
18	Hire and running charges of loader.	Day	1150.00
19	Hand Grinder For mirror polish	Day	400.00
20	Hydraulic Excavator (3D) with driver and fuel.	Day	8000.00
21	Pin vibrator	Day	800.00
22	Surface Vibrator	Day	800.00
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	per day	37000.00
25	Hire and running charges of light crane.	per day	2900.00
26	Hire and running charges of bentonite pump.	per day	5775.00
27	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	per day	37000.00
28	Hire and running charges of crane 20 tonne capacity.	per day	6350.00
29	Carriage of concrete by transit mixer.	km/ cum	32.00
30	Generator 250 KVA.	per day	11500.00
33	Paint applicator.	per day	650.00
37	Mobile crane.	per day	6350.00
38	Tractor with ripper attachment.	per day	1270.00
39	Tractor with trolley .	per day	1300.00
40	Air compressor 250 cfm with two leads for pneumatic cutters/ hammers.	day	1730.00
41	Joint cutting machine with 2-3 blades	per day	1000.00
42	C.C .batch mix plant.	day	50000.00
43	Road sweeper	day	700.00
45	Slip form paver with sensor.	day	12700.00
46	Water tanker 5000 litr capacity.	day	1200.00
47	Concrete joint cutting machine.	day	1200.00
48	Texturing machine.	day	1000.00
49	Production Cost of concrete for weigh batcher, operator charges & other charges for designing	cum	60.00
50	Water tanker 6 kL capacity	hour	300.00

INPUTS			
BASIC RATES OF LABOUR			
CODE	LABOUR	UNIT	RATE
100	Bandhani	Day	400.00
101	Bhisti	Day	500.00
102	Blacksmith 1st class	Day	800.00
103	Blacksmith 2nd class	Day	650.00
111	Carpenter 1st class	Day	1000.00
112	Carpenter 2nd class	Day	800.00
113	Chowkidar	Day	600.00
114	Beldar	Day	500.00
115	Coolie	Day	400.00
116	Fitter (grade 1)	Day	800.00
117	Assistant Fitter or 2nd class Fitter	Day	600.00
119	Glazier	Day	700.00
122	Mason (for plaster of paris work) 1st class	Day	700.00
123	Mason (brick layer) 1st class	Day	700.00
124	Mason (brick layer) 2nd class	Day	600.00
125	Mason (for plain stone work) 2nd class	Day	600.00
126	Mason (for ornamental stone work) 1st class	Day	1000.00
127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	Day	700.00
128	Mate	Day	600.00
130	Mistry	Day	700.00
131	Painter	Day	600.00
132	Rock Excavator	Day	800.00
133	Rock Breaker	Day	800.00
134	Rock Hole Driller	Day	800.00
135	Stone Chiseller	Day	700.00
138	Sprayer (for bitumen, tar etc.)	Day	700.00
139	Skilled Beldar (for floor rubbing etc.)	Day	500.00
141	White Washer	Day	600.00
155	Mason (average)	Day	700.00
156	Carpenter (average)	Day	600.00
157	Operator (Pile/ Special machine)	Day	800.00
159	Skilled torch operator for laying tack	Day	600.00
160	Sweeper	Day	800.00
161	Helper	Day	500.00
162	Dhobi	Day	500.00
163	Tailor/Upholsterer	Day	600.00

INPUTS			
BASIC RATES OF MATERIALS			
CODE	NAME OF MATERIALS	UNIT	RATE
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	60.00
223	Non - Asbestos fibre cement corrugated sheet 6mm thick.	sqm	260.00
224	Non - Asbestos fibre cement close fitting adjustable ridge.	metre	320.00
225	Non - Asbestos fibre cement corrugate serrated adjustable ridge.	metre	270.00
226	Non - Asbestos fibre cement plain wing adjustable ridge.	metre	290.00
227	Non - Asbestos fibre cement unserrated adjustable ridge for hips.	metre	300.00
228	Non - Asbestos fibre cement corrugated apron piece.	metre	230.00
229	Non - Asbestos fibre cement eaves filler piece.	each	150.00
230	Non - Asbestos fibre cement north light curves.	metre	300.00
231	Non - Asbestos fibre cement ventilator curves.	each	385.00
232	Non - Asbestos fibre cement barge boards 6 mm thick.	metre	330.00
233	Non - Asbestos fibre cement ridge finial .	pair	150.00
234	Non - Asbestos fibre cement special north light curves.	each	405.00
235	Non - Asbestos fibre cement S type louvers.	each	250.00
236	Non - Asbestos multi purpose fibre cement board 6mm thick.	sqm	280.00
237	Non - Asbestos multi purpose fibre cement board 8mm thick.	sqm	350.00
285	Brick Aggregate (Single size) : 63 mm nominal size	cum	485.00
286	Brick Aggregate (Single size) : 50 mm nominal size	cum	530.00
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	950.00
291	Stone Aggregate (Single size) : 63 mm nominal size	cum	870.00
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	930.00
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	990.00
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	990.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1100.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1100.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1000.00
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	950.00
302	Safeda ballies 125 mm diameter	metre	70.00
304	Bajri	cum	1800.00
305	Bamboo 25 mm dia 2.5 metre long	score	500.00
308	Bhusa	quintal	350.00
309	Paving bitumen S-90 of approved quality	tonne	60500.00
310	Bitumen emulsion	tonne	53000.00
312	Bitumen grade PMB - 40	M.T.	60500.00
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	60500.00
314	Bitumen hot sealing compound : grade A	kilogram	35.00
316	Bitumen solution primer of approved quality	litre	82.00
317	Premoulded joint filler 12 mm thick	sqm	570.00
318	Bitumen felt fibre base (vegetable or animal):Type 2 grade 1	sqm	130.00
322	Bitumen felt :Type 3 grade 1	sqm	130.00
324	Coal Tar	litre	76.00
325	Blasting powder	kilogram	41.00
326	Blasting fuse (fuse wire)	each	18.00
328	White face insulating board:12 mm thick	sqm	405.00
332	Natural colour insulating board:12 mm thick	sqm	300.00
336	Flame retardent face insulating board: 12 mm thick	sqm	470.00
338	Flame retardent face insulating, Impregnated fibre board 12 mm thick	sqm	580.00
339	Flame retardent face insulating, Impregnated fibre board 18 mm thick	sqm	815.00
340	Flame retardent face insulating, Impregnated fibre board 25 mm thick	sqm	1120.00
341	Flat pressed 3 layer particle board (medium density) Grade I:12 mm thick	sqm	350.00
346	Extra for veneered particle board with : Teak veneering on one side and commercial veneered on other side	sqm	350.00
347	Extra for veneered particle board with : Commercial veneering on both sides	sqm	250.00
348	Extra for veneered particle board with : Teak veneering on both sides	sqm	580.00
349	SILFIL (Armour Bound) 20 mm thick	sqm	270.00
350	SILFIL (Armour Bound) 25 mm thick	sqm	340.00
351	SILFIL (Armour Bound) 30 mm thick	sqm	405.00
352	SILFIL (Armour Bound) 40 mm thick	sqm	550.00
353	Double side tape for fixing SILFIL (Density not less 30 kg./cum.)	sqm	70.00
362	Brick bats	cum	600.00
364	Wire brush	each	50.00

CODE	NAME OF MATERIALS	UNIT	RATE
365	Soft brush	each	30.00
367	Portland Cement	tonne	7000.00
368	White Cement	tonne	18000.00
369	Shree binder	tonne	500.00
370	Coal (steam)	quintal	3465.00
373	Cramp Gun metal 25x6x300 mm	each	75.00
378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	650.00
379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	500.00
380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	400.00
381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	350.00
382	Brass butt hinges (heavy type) : 125x85x5.5 mm(.70)kg	10 Nos	3000.00
383	Brass butt hinges (heavy type) : 100x85x5.5 mm(.56)kg	10 Nos	2700.00
384	Brass butt hinges (heavy type) : 75x65x4.0 mm(.20)kg	10 Nos	2500.00
385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2500.00
386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2400.00
387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2300.00
388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	2250.00
389	Brass single acting spring hinges 150 mm	each	300.00
390	Brass single acting spring hinges 125 mm	each	250.00
391	Brass single acting spring hinges 100 mm	each	200.00
392	Brass double acting spring hinges 150 mm	each	980.00
393	Brass double acting spring hinges 125 mm	each	750.00
394	Brass double acting spring hinges 100 mm	each	650.00
400	Brass tower bolt (barrel type) 250x10 mm	each	250.00
401	Brass tower bolt (barrel type) 200x10 mm	each	220.00
402	Brass tower bolt (barrel type) 150x10 mm	each	200.00
403	Brass tower bolt (barrel type) 100x10 mm	each	170.00
404	Brass flush bolt 250 mm	each	140.00
405	Brass flush bolt 150 mm	each	115.00
406	Brass flush bolt 100 mm	each	76.00
408	Brass handles 125 mm with plate 175x32 mm	each	240.00
419	Brass hard drawn hooks and eyes 250 mm	10 Nos	800.00
420	Brass hard drawn hooks and eyes 200 mm	10 Nos	750.00
421	Brass hard drawn hooks and eyes 150 mm	10 Nos	700.00
422	Brass hard drawn hooks and eyes 100 mm	10 Nos	500.00
423	Brass casement window fastener	Each	55.00
424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	110.00
425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	Each	90.00
426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	80.00
427	Brass quadrant stays 300 mm	each	130.00
428	Brass fanlight catch	10 Nos	190.00
429	Brass fanlight pivot	10 Nos	260.00
430	Brass chain with hook for fan light catch	each	25.00
431	Brass hasps and staples (safety type) 300 mm	10 Nos	760.00
432	Brass hasps and staples (safety type) 115 mm	10 Nos	630.00
433	Brass hasps and staples (safety type) 90 mm	10 Nos	510.00
438	Brass Night latch	each	560.00
442	Brass helical spring 150 mm	each	305.00
444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	150.00
445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	180.00
446	Brass brackets (curtain rods) 20 mm	each	80.00
447	Brass cupboard knob or ward robe knob 50 mm	each	50.00
449	Brass screws 50 mm	100 Nos	600.00
450	Brass screws 40 mm	100 Nos	550.00
451	Brass screws 30 mm	100 Nos	500.00
452	Brass screws 25 mm	100 Nos	450.00
453	Brass screws 20 mm	100 Nos	400.00
524	Chromium plated Brass butt hinges (heavy) type 75x65x4 .0 mm (200gms)	10 Nos	950.00
525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4 mm	10 Nos	1150.00
526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	1050.00
527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	900.00
528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	700.00

CODE	NAME OF MATERIALS	UNIT	RATE
555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	Each	180.00
556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	Each	160.00
557	Chromium plated Brass handles 75mm with plate 125x32 mm	Each	140.00
558	Chromium plated Brass mortice latch and lock 100x65 mm with6 levers and a pair of brass lever handles	each	800.00
568	Chromium plated brass casement window fastner	each	90.00
569	Chromium plated Brass casement stays (straight peg type) 300 mmweighing not less than 0.33 kg	each	130.00
570	Chromium plated Brass casement stays (straight peg type) 250 mmweighing not less than 0.28 kg	each	115.00
571	Chromium plated Brass casement stays (straight peg type) 200 mmweighing not less than 0.24 kg	each	95.00
583	Chromium plated Brass Night latch	each	720.00
584	Chromium plated Brass Wardrobe Knobe 50 mm	each	630.00
585	Chromium plated Brass screws 50 mm	100 Nos	470.00
586	Chromium plated Brass screws 40 mm	100 Nos	360.00
587	Chromium plated Brass screws 30 mm	100 Nos	280.00
588	Chromium plated Brass screws 25 mm	100 Nos	230.00
589	Chromium plated Brass screws 20 mm	100 Nos	140.00
590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	230.00
591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	320.00
592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	510.00
594	Bright finished or black enamelled mild steel butt hinges 125x65x2.12 mm	10 Nos	160.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	130.00
596	Bright finished or black enamelled mild steel butt hinges75x47x1.70 mm	10 Nos	90.00
597	Bright finished or black enamelled mild steel butt hinges50x37x1.50 mm	10 Nos	70.00
608	Nickel plated mild steel piono hinges 1 mm thick 35 mm wide	metre	40.00
635	Bright finished or black enamelled mild steel screws 50 mm	100 Nos	90.00
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	45.00
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	50.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	40.00
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	20.00
641	Bright finished or black enamelled mild steel bolts and nuts 50x6 mm	each	7.00
642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	250.00
643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	180.00
644	Oxidised mild steel butt hinges75x47x1.70 mm	10 Nos	100.00
645	Oxidised mild steel butt hinges50x37x1.50 mm	10 Nos	56.00
646	Oxidised mild steel parliamentary hinges150x125x27x2.8 mm	10 Nos	450.00
647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	360.00
648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	280.00
649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	215.00
650	Oxidised mild steel single acting spring hinges 150 mm	each	115.00
651	Oxidised mild steel single acting spring hinges 125 mm	each	105.00
652	Oxidised mild steel single acting spring hinges 100 mm	each	90.00
653	Oxidised mild steel double acting spring hinges 150 mm	each	120.00
654	Oxidised mild steel double acting spring hinges 125 mm	each	110.00
655	Oxidised mild steel double acting spring hinges 100 mm	each	90.00
656	Nickel plated mild steel piono hinges 1 mm thick 35 mm wide	metre	40.00
660	Oxidised mild steel sliding door bolt 300x16 mm	each	82.00
661	Oxidised mild steel sliding door bolt 250x16 mm	each	65.00
662	Oxidised mild steel door latch 300x20x6 mm	each	45.00
663	Oxidised mild steel door latch 250x20x6 mm	each	40.00
664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	40.00
665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	31.00
666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	28.00
667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	23.00
668	Oxidised mild steel handles 125 mm	each	13.00
669	Oxidised mild steel handles 100 mm	each	10.00
670	Oxidised mild steel handles75 mm	each	7.00
679	Oxidised mild steel hasps and staples(safety type) 150 mm	10 Nos	130.00
680	Oxidised mild steel hasps and staples(safety type) 115 mm	10 Nos	101.00
681	Oxidised mild steel hasps and staples(safety type)90 mm	10 Nos	76.00
682	Oxidised mild steel screws 50 mm	100 Nos	60.00
683	Oxidised mild steel screws 40 mm	100 Nos	48.00
684	Oxidised mild steel screws 30 mm	100 Nos	36.00

CODE	NAME OF MATERIALS	UNIT	RATE
685	Oxidised mild steel screws 25 mm	100 Nos	23.00
686	Oxidised mild steel screws 20 mm	100 Nos	20.00
687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	1050.00
688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	1000.00
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	900.00
690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	850.00
691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	850.00
692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	800.00
693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	380.00
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	205.00
696	Anodised Aluminium sliding door bolt 300x16 mm	each	210.00
697	Anodised Aluminium sliding door bolt 250x16 mm	each	190.00
698	Anodised Aluminium tower bolt (barrel type)300x10 mm	10 Nos	980.00
699	Anodised Aluminium tower bolt (barrel type)250x10 mm	10 Nos	860.00
700	Anodised Aluminium tower bolt (barrel type)200x10 mm	10 Nos	710.00
701	Anodised Aluminium tower bolt (barrel type)150x10 mm	10 Nos	550.00
702	Anodised Aluminium tower bolt (barrel type)100x10 mm	10 Nos	410.00
703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	750.00
704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	650.00
705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	550.00
706	Anodised Aluminium kicking plate 50 cm long100x3.15 mm	each	140.00
713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2150.00
714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2050.00
715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1980.00
717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1550.00
718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1480.00
719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	1400.00
720	Block board construction flush door with teak wood ply on one faces 35 mm thick	sqm	1850.00
721	Block board construction flush door with teak wood ply on one faces 30 mm thick	sqm	1650.00
722	Block board construction flush door with teak wood ply on one faces 25 mm thick	sqm	1550.00
752	Block board construction flush door lipping	sqm of door area	200.00
753	Square vision panel in Block board construction flush door	sqm of door area	350.00
754	Circular vision panel in Block board construction flush door	Sqm of doo	200.00
755	Decorative type Louvers in Block board construction flush door	sqm of door area	400.00
757	Rebate cutting in Block board construction flush door	sqm of door area	120.00
759	Decorative plywood 4 mm	sqm	800.00
761	Fuel wood	quintal	500.00
763	Glue	kilogram	550.00
765	Hessian cloth	sqm	25.00
768	Cement Concrete Jali 50 mm thick	sqm	750.00
769	Cement Concrete Jali 40 mm thick	sqm	600.00
770	Cement Concrete Jali 30 mm thick	sqm	500.00
771	Kerosene oil	litre	50.00
772	Synthetic colour	Kg	165.00
773	Unslaked lime	quintal	560.00
774	Khameera	Kg	150.00
775	Dehradun white lime	quintal	1600.00
776	Satna lime	quintal	1300.00
777	Dry hydrated lime (factory made)	quintal	1300.00
784	Marble dust/ powder	cum	1000.00
785	Marble chips upto 4mm and downsize White & black	quintal	500.00
788	Marble chips large size above 4 mm White & black	quintal	500.00
789	Jhingra	cum	60.00
790	MS hold fast	Nos	30.00
810	Moorum	cum	525.00
811	Mud (dry)	cum	105.00

CODE	NAME OF MATERIALS	UNIT	RATE
815	Dry distemper	kilogram	55.00
816	Oil bound washable distemper/ Acrylic distemper	kilogram	60.00
818	Linseed oil (double boiled)	litre	200.00
820	Cement primer	litre	130.00
821	Distemper primer	litre	130.00
823	Pink primer (for wood)	litre	170.00
826	Aluminium paint	litre	300.00
827	Acid proof paint (chocolate or black)	litre	150.00
828	Anticorrosive bituminous paint (black)	litre	150.00
829	Black japan	litre	160.00
830	Enamel paint	litre	270.00
831	Floor enamel paint in all shades except green	litre	270.00
833	Synthetic enamel paint in black or chocolate shade	litre	250.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	265.00
835	Plastic emulsion paint	litre	285.00
845	Roofing paint for iron sheets in red colour	litre	165.00
850	White lead	kilogram	90.00
851	Water proofing cement paint	kilogram	60.00
855	Wax polish (ready made)	kilogram	350.00
856	Ordinary varnish	litre	90.00
857	Superior copal varnish	litre	150.00
858	Superior spar varnish	litre	275.00
859	Oil type wood preservative	litre	90.00
863	Putty for wood work	kilogram	75.00
865	Pig lead	kilogram	125.00
868	Premixed super white gypsum plaster.	kg	15.00
869	Plaster of Paris	kilogram	8.00
870	Plug	each	6.00
871	White cement based putty	kilogram	25.00
873	Copper pins 6 mm dia 7.5 cm long	each	15.00
874	Black colour dark shade pigment	kilogram	75.00
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	70.00
876	Green or blue medium shade pigment	kilogram	70.00
886	Standard holdar bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	40.00
887	Gur	Kg	40.00
888	Methi	Kg	50.00
889	Hemp	Kg	30.00
890	Water for wetting of bedding sand	kl	50.00
966	Sand Cast iron plain shoe 150 mm dia	each	800.00
967	Copper plate	kilogram	400.00
969	Pully 25 mm dia	each	25.00
973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1500.00
974	Top cover for rolling shutters	metre	700.00
975	27.5 cm long wire spring grade no 2 for rolling shutters	each	300.00
976	Ball bearing for rolling shutters	each	450.00
977	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and upto 16.80 sq.m area of door	sqm	900.00
978	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sq.m area of door	sqm	950.00
979	Royalty for good earth	cum	30.00
980	Royalty for sludge	cum	100.00
982	Coarse sand (zone III)	cum	1800.00
983	Fine sand (zone IV)	cum	1800.00
984	Blown Sand	cum	300.00
992	Galvanised steel plain sheets	quintal	7000.00
994	Standard quality hard board sheet 3 mm thick	sqm	290.00
996	Standard quality hard board sheet 4.5 mm thick	sqm	350.00
999	Shellac	kilogram	1150.00
1000	Spirit	litre	100.00
1001	Spunyarn	kilogram	100.00
1002	Mild steel round bar 12 mm dia and below	quintal	7400.00
1003	Mild steel round bar above 12 mm dia	quintal	7400.00
1004	Average rate of Mild steel round bars for reinforcements	quintal	7400.00

CODE	NAME OF MATERIALS	UNIT	RATE
1005	Twisted steel / deformed bars	quintal	8000.00
1006	Mild steel square bars	quintal	7400.00
1007	Structurals such as tees,angles channels and R.S. joists	quintal	7400.00
1008	Flats upto 10 mm in thickness	quintal	7400.00
1009	Flats exceeding 10 mm in thickness	quintal	7400.00
1010	Mild steel plates	quintal	9600.00
1013	Mild steel sheets for tanks	quintal	9600.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	325.00
1016	TMT bar	quintal	8000.00
1019	Mild steel hooks	each	35.00
1020	Mild steel rivets	quintal	8000.00
1021	Hard drawn steel wire fabric	sqm	550.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	25.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	150.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	15.00
1025	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	30.00
1026	Black steel barbed wire	quintal	9000.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	7500.00
1030	Galvanised steel turn buckles	each	15.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	20.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	15.00
1034	Bolts and nuts upto 300 mm in length	quintal	6350.00
1035	Bolts and nuts above 300 mm in length	quintal	6930.00
1036	Iron pintels including welded pin	each	45.00
1037	Binding wire	Kg	90.00
1038	Wire mesh (rabbit)	Sqm	350.00
1143	Steel beading	metre	25.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	120.00
1148	Glass strip 3 mm thick 20 mm deep	metre	10.00
1149	Glass strip 4 mm thick40 mm deep	metre	17.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	81.00
1154	Through and bond stone	100 Nos	1275.00
1157	Stone for masonry work	cum	1000.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	650.00
1159	Stone dust	cum	750.00
1160	Red sand stone block	10 cudm	70.00
1161	White/Pink sand stone block	10 cudm	80.00
1162	White sand stone 100mm thick	sqm	700.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	375.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	650.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	750.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	350.00
1167	Stone chajja patti	sqm	650.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	400.00
1169	Kotastone slab 40mm thick (rough chisled)	sqm	250.00
1170	Katla stone pati 80 mm thick	sqm	1600.00
1171	Katla stone pati 50 mm thick	sqm	1500.00
1172	Stone slab	sqm	600.00
1173	Kota stone slab minimum 30mm thick (semi-polished)	sqm	450.00
1174	Red sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	800.00
1175	White sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	800.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	900.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	900.00
1182	Surkhi	cum	500.00
1183	Shesham wood	10 cudm	1100.00
1184	Nigeria wood	10 cudm	1350.00
1185	Ghana wood	10 cudm	1450.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1400.00
1187	First class teak wood in scantling	10 cudm	1100.00
1188	First class teak wood in planks	10 cudm	1155.00
1189	Second class teak wood in scantling	10 cudm	700.00

CODE	NAME OF MATERIALS	UNIT	RATE
1190	Second class teak wood in planks	10 cu dm	750.00
1191	Ivory coast	10 cu dm	1100.00
1192	Chir wood	10 cu dm	375.00
1194	Second class deodar wood in planks	10 cu dm	750.00
1196	First class kail wood in planks	10 cu dm	400.00
1197	Second class kail wood in scantling	10 cu dm	290.00
1198	Second class kail wood in planks	10 cu dm	310.00
1199	Sal wood in scantling	10 cu dm	500.00
1201	Precast terrazo tiles 22 mm thick (light shade)	sqm	225.00
1202	Precast terrazo tiles 22 mm thick(medium shade)	sqm	200.00
1203	Precast terrazo tiles 22 mm thick (dark shade)	sqm	190.00
1204	Precast terrazo tiles 20 mm thick for roof	sqm	175.00
1207	G.I. Limpet washer	100 Nos	30.00
1208	Bitumen washer	100 Nos	25.00
1209	G.I. plain washer thick	100 Nos	40.00
1210	G.I. plain washer thin	100 Nos	30.00
1211	G.I. plain washer for seam bolts	100 Nos	30.00
1213	Water proofing materials	kilogram	40.00
1214	Welding by gas plant	cm	5.00
1215	Welding by electric plant	cm	5.00
1216	Whiting	quintal	735.00
1218	Spigot for standard jointing	kilogram	60.00
1219	Wire nails	kilogram	60.00
1220	Wire mesh (rabbit)	sqm	225.00
1221	20 mm dia holding down bolts	quintal	5500.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	125.00
1224	Hard drawn steel wire	quintal	5500.00
1225	Mild steel flat strap fitting	quintal	5200.00
1227	Chequered terrazo tiles 22 mm thick(light shade)	sqm	200.00
1228	Chequered terrazo tiles 22 mm thick(medium shade)	sqm	190.00
1229	Chequered terrazo tiles 22 mm thick (dark shade)	sqm	180.00
1231	Extra for selected planks of second class teakwood	10 cu dm	125.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	175.00
1235	Diesel oil	litre	100.00
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	20.00
1238	Extra for selected planks of first class teakwood	10 cu dm	175.00
1241	Commercial LPG in cylinder.	kg	130.00
1301	Bleaching powder	quintal	1900.00
1304	Surface box for stop cock	each	100.00
1305	Surface box for sluice valve	each	200.00
1307	Surface box for water meter	each	325.00
1309	C.I. bracket for wash basin and sinks	pair	105.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	75.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	130.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	100.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	50.00
1332	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	41.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	35.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	41.00
1336	Clearing eye with chain and lid 100 mm dia	each	52.00
1337	Clearing eye with chain and lid 150 mm dia	each	58.00
1339	Brass bib-cock 15 mm dia	each	400.00
1340	Brass bib-cock 20 mm dia	each	450.00
1342	Brass stop-cock 15 mm dia	each	410.00
1343	Brass stop-cock 20 mm dia	each	525.00
1350	Mosquito proof coupling of approved design	each	35.00
1352	C.I. cover and frame 300x300 mm inside	each	500.00
1353	C.I.cover without frame 300x300mm inside i.e.cover of 4.50 kg	each	400.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	2200.00
1355	Rectangular cover 455x610mm without frame (low duty)	each	1300.00
1356	500 mm dia cover with frame (medium duty)	each	6500.00
1357	500 mm dia cover without frame (medium duty)	each	3200.00
1358	ferron cement cover and frame 300x300 mm inside	each	250.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	185.00

CODE	NAME OF MATERIALS	UNIT	RATE
1362	C.I.mouth, brass ferrule 25 mm dia	each	230.00
1363	Vitreous china foot rests 250x130x30 mm	pair	175.00
1364	C.I. grating 100x100 mm	each	70.00
1366	C.I. grating 150x150 mm	each	100.00
1367	C.I. grating 180x180 mm	each	120.00
1368	C.I. grating 225x225 mm	each	300.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	70.00
1373	Rubber insertions for 80 mm dia pipe joints	each	13.00
1374	Rubber insertions for 100 mm dia pipe joints	each	17.00
1375	Rubber insertions for 125 mm dia pipe joints	each	18.00
1376	Rubber insertions for 150 mm dia pipe joints	each	21.00
1377	Rubber insertions for 200 mm dia pipe joints	each	28.00
1378	Rubber insertions for 250 mm dia pipe joints	each	42.00
1379	Rubber insertions for 300 mm dia pipe joints	each	53.00
1380	Rubber insertions for 350 mm dia pipe joints	each	63.00
1381	Rubber insertions for 400 mm dia pipe joints	each	92.00
1382	Rubber insertions for 450 mm dia pipe joints	each	116.00
1383	Rubber insertions for 500 mm dia pipe joints	each	150.00
1384	Rubber insertions for 600 mm dia pipe joints	each	165.00
1391	bevelling/teak wood lipping of mirror 60x45cm	each	450.00
1392	Mirror of superior make glass 60x45 cm	Each	380.00
1393	Mirror of superior make 4mm thick	Sqm	1100.00
1396	Vitrous china pedestal for wash basin	each	2400.00
1397	Pig lead	kilogram	200.00
1402	Squatting Pan (Indian type) white glazed vitreous China Ist quality W.C. Pan Size 450 mm.	each	500.00
1403	Squatting Pan (Indian type) white glazed vitreous China Ist quality W.C. Pan Size 510 mm.	each	550.00
1404	Squatting Pan (Indian type) white glazed vitreous China Ist quality W.C. Pan Size 580 mm.	each	600.00
1405	100 vitrious china P or S Trap	each	400.00
1406	Indian type white glazed vitreous china Ist quality W.C. orissa pan Size 530x410mm.	each	1700.00
1407	Indian type white glazed vitreous china Ist quality W.C. orissa pan Size 580x440 mm.	each	2300.00
1408	Carriage and fixing of material (Seat Cover etc.)	each	10.00
1409	European type white glazed vitreous china Ist quality W.C. pan	each	2000.00
1410	European type white glazed vitreous china Ist quality Double symphonic W.C.	each	5600.00
1411	European type white glazed vitreous china Ist quality W.C. Wall Mounting.	each	3100.00
1412	European type white glazed vitreous china Ist quality W.C. Wall Mounting.(extended)	each	3470.00
1413	European type white glazed vitreous china Ist quality W.C. Wall Mounting (syphonic)	each	4085.00
1414	White glazed Conversion Bend for W.C. from P trap to S trap	each	400.00
1415	White Vitreous China Double Syphonic European W.C.with mounted W.V.C. flushing cistern of of 10 litre capacity	each	11000.00
1416	WVC Urinal Flat Back (small) size 440x265x315 mm.	each	1600.00
1417	WVC Urinal Flat Back (large) or half stall size 590x375x390 mm.	each	5400.00
1418	WVC Urinal Mini stall size 440x315x320 mm.	each	1800.00
1420	Dome Waste coupling for urinal 32 mm	each	250.00
1421	Iron bracket/Plugs & Screws for urinal installation	pair	100.00
1422	W.V.C. Urinal Partition plate size 630x315	each	900.00
1423	Marble Urinal Partition slab both sides polished size 900x600mm.Makrana II quality marble having light spots.	each	750.00
1424	Marble Urinal Partition slab both sides polished size 900x600mm. Makrana II quality marble having light spots.	each	700.00
1425	Marble Urinal Partition slab both sides polished size 900x600mm. Makrana 'Adanga' or Raj Naga ISt Quality White or Andhi Indi-Italian marble.	each	650.00
1426	W.V.C. Half-Round Channel Size 100 mm dia.	Mtr	460.00
1427	W.V.C. Half-Round Channel Size 150 mm dia.	Mtr	620.00
1428	High Level Flushing Cistern of 10 Litres capacity	each	1030.00
1429	32mm G.I. Flush pipe	each	240.00
1430	over flow pipe 185cm	each	160.00

CODE	NAME OF MATERIALS	UNIT	RATE
1431	brackets	each	72.00
1432	Low level Flushing Cistern of 10 litres capacity : WVC with C.P. brass bend.	each	2000.00
1433	Low level Flushing Cistern of 10 litres capacity : PVC with PVC bend as per IS : 7231	each	1300.00
1434	Low level Flushing Cistern of 10 litres capacity : PVC with PVC bend and superior internal fittings	each	1700.00
1435	Low level Flushing Cistern of 10 litres capacity : WVC for symphonic EWC.	each	2000.00
1436	Low level Flushing Cistern of 10 litres capacity : PVC with CP brass long band.	each	1600.00
1437	Automatic Flushing Cistern	each	1120.00
1438	bend	each	150.00
1439	G.I. Flush pipe 'B' class (Concealed) 25 mm.	each	305.00
1440	G.I. Flush pipe 'B' class (Concealed) 32 mm.	each	375.00
1441	M.S. clamps	each	48.00
1442	Flush pipe PVC exposed (heavy) 32 mm.	each	85.00
1443	Flush pipe GI (Sheet) hot galvanized exposed (10 Litres).	each	121.00
1444	WVC (10 litres) low-level flushing cistern with cover.	each	760.00
1445	WVC (10 litres) low level flushing cistern cover only.	each	270.00
1446	WVC siphon with plunger plate only.	each	170.00
1447	WVC Auto cistern with cover only.	each	400.00
1448	WVC Auto cistern cover only.	each	120.00
1449	C.P. brass Urinal Flush pipe set For 4 Urinals.	each	1060.00
1450	C.P. brass Urinal Flush pipe set For 3 Urinals.	each	800.00
1451	C.P. brass Urinal Flush pipe set For 2 Urinals.	each	600.00
1452	C.P. brass Urinal Flush pipe set For 1 Urinals.	each	370.00
1453	C.P. brass Urinal Spreader for stall urinal	each	315.00
1454	Synthetic (PTMT) Urinal Spreader for stall urinal	each	255.00
1455	Dome Waste coupling for urinal 40 mm	each	195.00
1456	Plastic Syphon of approved make for automatic flush tank.	each	210.00
1457	Copper tube Syphon for auto flush tank.	each	435.00
1458	C.P. Brass flush Valve Lever type with Elbow 32 mm dia.	each	2645.00
1459	C.P. Brass flush Valve Push type with Elbow 32 mm dia.	each	2780.00
1460	flush Bend	each	485.00
1461	C.P. Brass flush Valve Concealed type for 112 mm.	each	3250.00
1462	C.P. Brass flush Valve for 225 mm	each	3360.00
1464	S & S.C.I.standard specials upto 300 mm dia (heavy class)	quintal	3510.00
1466	S & S.C.I.standard specials over 300 mm dia (heavy class)	quintal	3800.00
1468	Flanged C.I. standard specials upto 300 mm dia(heavy class)	quintal	6300.00
1470	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	6700.00
1472	Casing pipe 100 mm dia	metre	430.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	300.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	490.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	610.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	680.00
1540	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	200.00
1541	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	300.00
1542	Flush pipe and spreaders G.I.for range of three squatting plates urinal	each	370.00
1543	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	470.00
1545	G.I. pipes 15 mm dia (B Class)	metre	160.00
1546	G.I. pipes 20 mm dia (B Class)	metre	205.00
1547	G.I. pipes 25 mm dia (B Class)	metre	290.00
1548	G.I. pipes 32 mm dia (B Class)	metre	360.00
1549	G.I. pipes 40 mm dia (B Class)	metre	420.00
1550	G.I. pipes 50 mm dia (B Class)	metre	600.00
1551	G.I. pipes 65 mm dia (B Class)	metre	695.00
1552	G.I. pipes 80 mm dia (B Class)	metre	890.00
1555	G.I. back (jam) nuts25 mm dia	each	8.00
1559	G.I. back (jam) nuts65 mm dia	each	27.00
1608	G.I. tees (equal) 25 mm	each	65.00
1612	G.I. tees (equal) 65 mm	each	370.00
1614	G.I. inlet connection	each	86.00
1615	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:50mm dia	each	1180.00

CODE	NAME OF MATERIALS	UNIT	RATE
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:75mm dia	each	1590.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	2020.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150mm dia	each	3675.00
1620	S.C.I. plain bend75mm dia	each	391.00
1621	S.C.I. plain bend 100mm dia	each	575.00
1622	S.C.I. plain bend 150mm dia	each	1210.00
1624	S.C.I. bend with access door 75mm dia	each	475.00
1625	S.C.I. bend with access door 100mm dia	each	650.00
1627	S.C.I. plain single equal junctions75x75x75 mm dia	each	325.00
1628	S.C.I. plain single equal junctions100x100x100 mm dia	each	420.00
1630	S.C.I. single equal junctions75x75x75 mm dia with access door.	each	360.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door.	each	470.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	470.00
1634	S.C.I. plain double equal junctions100x100x100x100 mm dia	each	625.00
1636	S.C.I. double equal junctions75x75x75x75 mm dia with access door.	each	530.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door.	each	660.00
1639	Slotted cowl (terminal guard)75 mm dia	each	175.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	241.00
1641	G.I. Union 15 mm nominal bore	each	62.00
1642	G.I. Union 20 mm nominal bore	each	107.00
1643	G.I. Union 25 mm nominal bore	each	135.00
1644	G.I. Union 32 mm nominal bore	each	227.00
1645	G.I. Union 40 mm nominal bore	each	275.00
1646	G.I. Union 50 mm nominal bore	each	430.00
1647	G.I. Union 65 mm nominal bore	each	890.00
1648	G.I. Union 80mm nominal bore	each	995.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	7.00
1653	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	460.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	510.00
1659	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	675.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	720.00
1666	Sand cast iron heel rest bend75mm dia	each	261.00
1667	Sand cast iron heel rest bend 100mm dia	each	315.00
1669	S.C.I. single equal invert branch of required degree75x75x75 mm dia	each	380.00
1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	510.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	500.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	670.00
1674	S.C.I. single unequal invert branch of required degree100x100x75 mm dia	each	610.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	730.00
1682	S.C.I. door pieces 75 mm dia	each	335.00
1683	S.C.I. door pieces 100 mm dia	each	465.00
1685	S.C.I. collar 75 mm dia	each	130.00
1686	S.C.I. collar 100 mm dia	each	175.00
1687	Unplasticised P.V.C.connection pipe with brass union 30 cm long 15 mm bore	each	28.00
1688	Unplasticised P.V.C.connection pipe with brass union 30 cm long 20 mm bore	each	38.00
1689	Unplasticised P.V.C.connection pipe with brass union 45 cm long 15 mm bore	each	38.00
1690	Unplasticised P.V.C.connection pipe with brass union 45 cm long 20 mm bore	each	53.00
1693	S.C.I. hand pump	each	630.00
1700	R.C.C. pipes NP2 class 100 mm dia	meter	475.00
1701	R.C.C. pipes NP2 class 150 mm dia	meter	520.00
1702	R.C.C. pipes NP2 class 250 mm dia	meter	700.00
1703	R.C.C. pipes NP2 class 300 mm dia	meter	950.00
1704	R.C.C. pipes NP2 class 450 mm dia	meter	1430.00

CODE	NAME OF MATERIALS	UNIT	RATE
1705	R.C.C. pipes NP2 class 500 mm dia	meter	1600.00
1706	R.C.C. pipes NP2 class 600 mm dia	meter	2150.00
1707	R.C.C. pipes NP2 class 700 mm dia	meter	2650.00
1709	R.C.C. pipes NP2 class 800 mm dia	meter	3465.00
1710	R.C.C. pipes NP2 class 900 mm dia	meter	4350.00
1711	R.C.C. pipes NP2 class 1000 mm dia	meter	5000.00
1712	R.C.C. pipes NP2 class 1100 mm dia	meter	5900.00
1713	R.C.C. pipes NP2 class 200 mm dia	meter	615.00
1714	R.C.C. collarsNP2 class 100 mm dia	each	28.00
1715	R.C.C. collarsNP2 class 150 mm dia	each	35.00
1716	R.C.C. collarsNP2 class 250 mm dia	each	56.00
1717	R.C.C. collarsNP2 class 300 mm dia	each	70.00
1718	R.C.C. collarsNP2 class 450 mm dia	each	106.00
1719	R.C.C. collarsNP2 class 500 mm dia	each	122.00
1720	R.C.C. collarsNP2 class 600 mm dia	each	155.00
1721	R.C.C. collarsNP2 class 700 mm dia	each	171.00
1723	R.C.C. collarsNP2 class 800 mm dia	each	245.00
1724	R.C.C. collarsNP2 class 900 mm dia	each	300.00
1725	R.C.C. collarsNP2 class 1000 mm dia	each	350.00
1726	R.C.C. collarsNP2 class 1100 mm dia	each	405.00
1727	R.C.C. collarsNP2 class 1200 mm dia	each	470.00
1728	R.C.C. collarsNP2 class 200 mm dia	each	50.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	100.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	150.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	220.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	255.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	300.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	450.00
1860	Stoneware pipes grade A (60 cm long) 400 mm dia	each	700.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	3700.00
1864	Fire clay kitchen sink: 600x450x200 mm	each	3500.00
1865	White vitreous china laboratory sink 530x430x180 mm.	each	1600.00
1866	White vitreous china laboratory sink 500x350x150 mm.	each	1900.00
1867	Mosaic fine polished kitchen sink size 600x450x200 mm.	each	550.00
1868	Mosaic fine polished kitchen sink size 450x450x200 mm.	each	390.00
1869	Mosaic fine polished kitchen sink size 600 x 450 x 200 mm with 600 x 450mm drain board	each	770.00
1871	White vitreous china laboratory sink450x300x150 mm	each	1600.00
1872	White vitreous china laboratory sink600x450x200 mm	each	2400.00
1873	Drain Board WVC (I.S.: 2556 Mark) size 530 x 450mm	each	1075.00
1874	Drain Board Mosaic fine polished size 600 x 450	each	210.00
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	650.00
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	600.00
1878	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	43.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	60.00
1881	Spun yarn	kilogram	200.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	65.00
1885	15 mm C.P.brass tap	each	190.00
1889	C.P.brass toilet paper holder of standard size	each	300.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	191.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	241.00
1894	CI P trap	each	890.00
1895	C.P.brass trap40 mm dia	each	150.00
1896	100 mm S.C.I. trap with vent heel	each	400.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	350.00
1898	100 mm S.C.I. trap with 100 mm inlet and75 mm outlet	each	250.00
1900	S.W. gully trap P type 100x100 mm	each	83.00
1902	S.W. gully trap P type 150x100 mm	each	190.00
1903	S.W. gully trap P type 225x150 mm	each	400.00
1904	S.W. gully trap P type 180x150 mm	each	425.00
1913	Vitros china lipped front urinal	each	800.00
1915	Vitros china squatting plate urinal Size 450x350mm	each	800.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	250.00

CODE	NAME OF MATERIALS	UNIT	RATE
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	370.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	420.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	410.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	520.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	580.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	850.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1200.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	2030.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	420.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	550.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	720.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	1080.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1900.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2700.00
1940	C.I.sluice valve (with caps) class I : 100 mm dia	each	3000.00
1941	C.I.sluice valve (with caps) class I : 125 mm dia	each	3755.00
1942	C.I.sluice valve (with caps) class I : 150 mm dia	each	4510.00
1943	C.I.sluice valve (with caps) class I : 200 mm dia	each	8585.00
1944	C.I.sluice valve (with caps) class I : 250 mm dia	each	12785.00
1945	C.I.sluice valve (with caps) class I : 300 mm dia	each	15750.00
1947	Vitreous china flat back wash basin 630x450 mm	each	930.00
1949	Vitreous china angle back wash basin 600x480 mm	each	860.00
1950	Vitreous china angle back wash basin 400x400 mm	each	550.00
1951	C.P. brass waste coupling 32 mm	each	115.00
1952	C.P. brass waste coupling 40 mm	each	185.00
1953	Vitreous china indian type w.c. pan size 580 mm	each	530.00
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	1280.00
1955	Vitreous china pedestal type water closet	each	1015.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	14.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	14.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	19.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	19.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	20.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	24.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	34.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	43.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	48.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	5500.00
1966	C.P. brass waste coupling 50 mm	each	240.00
1967	SS waste coupling 125 mm	each	280.00
1968	P.V.C Waste pipe with C.P nut 32 mm	each	150.00
1969	P.V.C Waste pipe with C.P. nut 40 mm dia	each	170.00
1970	P.V.C Waste pipe with PVC nut 32 mm	each	70.00
1971	P.V.C Waste pipe with C.P. nut 40 mm	each	170.00
1972	Waste pipe with G.I(B class) 25mm	each	170.00
1973	Waste pipe with G.I(B class) 32mm	each	230.00
1974	Waste pipe with G.I(B class) 40 mm	each	380.00
1979	Vitreous china foot rests 250x125x25 mm	pair	140.00
1980	Flyash	cum	12.00
1984	F.P.S. bricks tile class designation 100	1,000 Nos	4500.00
1986	Modular bricks class designation 75	1,000 Nos	6000.00
2200	Carriage of steam coal	tonne	0.00
2201	Carriage of Bricks	1,000 Nos	0.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.00
2203	Carriage of Coarse sand	cum	0.00
2204	Carriage of Timber	cum	0.00
2205	Carriage of Steel	tonne	150.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.00
2207	Carriage of Brick tiles	1,000 Nos	0.00
2208	Carriage of Lime	cum	0.00
2209	Carriage of Cement	tonne	0.00
2210	Carriage of Shree binder	tonne	0.00
2211	Carriage of Tar bitumen	tonne	0.00

CODE	NAME OF MATERIALS	UNIT	RATE
2215	Carriage of Soling stone & masonry stone	cum	0.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.00
2224	Carriage of S.W. pipes100 mm dia	100 metre	0.00
2225	Carriage of S.W. pipes150 mm dia	100 metre	0.00
2226	Carriage of S.W. pipes200 mm dia	100 metre	0.00
2227	Carriage of S.W. pipes230 mm dia	100 metre	0.00
2228	Carriage of S.W. pipes250 mm dia	100 metre	0.00
2229	Carriage of S.W. pipes300 mm dia	100 metre	0.00
2241	Carriage of Good earth	cum	0.00
2242	Carriage of Dump manure	cum	0.00
2260	Carriage of Brick aggregate	cum	0.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts jamuna sand)	cum	0.00
2262	Flyash	cum	0.00
2264	Carriage of Rubbish	cum	0.00
2265	Carriage of Moorum	cum	0.00
2266	Carriage of Surkhi	cum	0.00
2267	Carriage of Stone dust	cum	0.00
2268	Carriage of Marble dust and marble chips	cum	0.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.00
2273	Carriage of A.C.sheet and accessories	tonne	0.00
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	0.00
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	0.00
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	0.00
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	0.00
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0.00
2302	Carriage of G.I.sheet and accessories	tonne	0.00
2303	Carriage of R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	0.00
2308	Carriage of Plaster of paris	tonne	0.00
2309	Carriage of Cast iron fittings	tonne	0.00
2311	Carriage of Red bajri	cum	0.00
2314	Carriage of Barbed wire	tonne	0.00
2317	Carriage of Sludge	cum	0.00
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	0.00
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	0.00
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	0.00
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	0.00
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	0.00
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	0.00
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	0.00
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	0.00
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	0.00
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	0.00
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	0.00
2330	Carriage of C.I. pipes 500 mm dia	100 metre	0.00
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	0.00
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	0.00
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	0.00
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	0.00
2335	Carriage of Jamuna sand	cum	0.00
2341	Carriage of Pig lead	tonne	0.00
2342	Carriage of solvent/ Diesel.	quintal	0.00
2343	Carriage of ductile iron pipes (k7) 100 mm dia	100 metre	0.00
2344	Carriage of cast iron pipes 150 mm dia	100 metre	0.00
2345	Carriage of cast iron pipes 200 mm dia	100 metre	0.00
2346	Carriage of cast iron pipes 250 mm dia	100 metre	0.00
2347	Carriage of cast iron pipes 300 mm dia	100 metre	0.00
2348	Carriage of cast iron pipes 350 mm dia	100 metre	0.00
2349	Carriage of cast iron pipes 400 mm dia	100 metre	0.00
2350	Carriage of cast iron pipes 450 mm dia	100 metre	0.00
2351	Carriage of cast iron pipes 500 mm dia	100 metre	0.00
2352	Carriage of cast iron pipes 600 mm dia	100 metre	0.00
2353	Carriage of cast iron pipes 700 mm dia	100 metre	0.00
2355	Carriage of cast iron pipes 800 mm dia	100 metre	0.00
2356	Carriage of cast iron pipes 900 mm dia	100 metre	0.00
2357	Carriage of cast iron pipes 1000 mm dia	100 metre	0.00

CODE	NAME OF MATERIALS	UNIT	RATE
2391	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	350.00
2392	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	450.00
2393	5mm thick Acrylic sheet (150mm wide)	Metre	60.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	450.00
2407	Float glass sheet of nominal thickness 5 mm.(weight not less than 13.50 kg/sqm).	sqm	550.00
2408	Float glass sheet of nominal thickness 8 mm	sqm	950.00
2409	Float glass sheet of nominal thickness 6 mm	sqm	700.00
2410	Float glass sheet of nominal thickness 10 mm	sqm	1200.00
2411	Float glass sheet of nominal thickness 12 mm	sqm	1500.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	515.00
2413	5 mm tinted glass	sqm	650.00
2414	5 mm reflected glass	sqm	800.00
2447	Hollock ballies 125 mm diameter	metre	60.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws,bolts,nuts and washers complete	each	45.00
2451	Brass cupboard lock 6 levers (best make of approved quality) 40 mm size	each	250.00
2452	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	300.00
2453	Brass cupboard lock 6 levers (best make of approved quality) 65 mm size	each	340.00
2454	Brass cupboard lock 6 levers (best make of approved quality) 75 mm size	each	400.00
2455	Brass hanging type door stopper 150 mm	each	75.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	1050.00
2459	Anodised Aluminium hanging type door stopper	each	25.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws,bolts,nuts and washers complete	each	50.00
2465	Anodised Aluminium Casement stay 250 mm	each	60.00
2466	Hollock wood in scantling	10 cudm	470.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42 mm with screws,bolts,nuts and washers complete	each	185.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	150.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	200.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	250.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	300.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1050.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	850.00
2482	6 mm thick commercial ply	sqm	350.00
2483	9 mm thick commercial ply	sqm	600.00
2484	9 mm teak ply BWR one side	sqm	1050.00
2485	9 mm teak ply BWR both side	sqm	1350.00
2486	12 mm thick commercial ply	sqm	650.00
2487	12 mm teak ply BWR one side	sqm	1250.00
2488	12mm teak ply BWR both side	sqm	1470.00
2489	0.6 mm mica	sqm	300.00
2490	0.8 mm mica	sqm	450.00
2491	1 mm mica	sqm	700.00
2492	4 mm thick commercial ply	sqm	350.00
2493	4 mm teak ply BWR one side	sqm	600.00
2494	6 mm teak ply BWR one side	sqm	800.00
2495	12 mm thick Acoustical Board	sqm	800.00
2496	12 mm thick one side laminated board Practical board (Phenol bonded)	sqm	950.00
2497	50 mm glass whool	sqm	550.00
2498	Hessian cloth with fibre glass	sqm	250.00
2500	Extra for selected planks of second class deodarwood	10 cudm	120.00
2504	Kiln seasoning of timber	cum	1050.00
2505	Hollock wood in planks	10 cudm	500.00
2602	F.P.S. bricks class designation 75	1,000 Nos	4500.00
2603	F.P.S. bricks class designation 50	1,000 Nos	4200.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	325.00
2710	White marble makranasecondquality plain veined stone pieces for crazy flooring	quintal	170.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	770.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	400.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	750.00

CODE	NAME OF MATERIALS	UNIT	RATE
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	810.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1100.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1100.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	405.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	470.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	810.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	810.00
2914	Solvent	kilogram	35.00
2916	Paving Asphalt 80/100 penetration	tonne	52000.00
3002	Polyvinyle chloride sheet 400 micron thick	sqm	37.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	41.00
3050	Galvanised steel corrugated sheets	quintal	7000.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1300.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	175.00
3229	Vitreous china flat back wash basin 550x400 mm	each	1400.00
3311	C.I.sludge valve (with caps) class II : 100 mm dia	each	2750.00
3314	C.I.sludge valve (with caps) class II : 125 mm dia	each	2500.00
3317	C.I.sludge valve (with caps) class II : 150 mm dia	each	4200.00
3320	C.I.sludge valve (with caps) class II : 200 mm dia	each	8100.00
3321	C.I.sludge valve (with caps) class II : 250 mm dia	each	11500.00
3326	C.I.sludge valve (with caps) class II : 300 mm dia	each	14400.00
3617	C.P.brass union 40 mm dia	each	165.00
3620	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	1400.00
3621	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia	each	1150.00
3624	S.C.I. S&S bends with access door100mm dia	each	250.00
3625	S.C.I. S&S bends with access door75mm dia	each	250.00
3628	S.C.I. S&S bend100mm dia	each	270.00
3629	S.C.I. S&S bend75mm dia	each	200.00
3634	S.C.I. S&S heel rest sanitary bend 100mm dia	each	330.00
3635	S.C.I. S&S heel rest sanitary bend 75mm dia	each	290.00
3640	S.C.I. S&S single equal junctions100x100x100 mm	each	520.00
3641	S.C.I. S&S single equal junctions75x75x75 mm	each	390.00
3644	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	560.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	410.00
3650	S.C.I. S&S double equal junctions100x100x100x100 mm	each	650.00
3651	S.C.I. S&S double equal junctions75x75x75x75 mm	each	520.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	700.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm.	each	560.00
3660	S.C.I. S&S single unequal junctions100x100x75 mm	each	650.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	730.00
3670	S.C.I. S&S double unequal junctions100x100x75x75 mm	each	900.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	980.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	455.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	345.00
3685	S.C.I. S&S double equal invert branch of required degree100x100x100x100 mm dia	each	580.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	470.00
3690	S.C.I. S&S single unequal invert branch of required degree100x100x75 mm dia	each	590.00
3695	S.C.I. S&S double unequal invert branch of required degree100x100x75x75 mm dia	each	800.00
3699	S.C.I. S&S, 75 mm offset for75 mm dia pipe	each	250.00
3707	S.C.I. S&S, 150 mm offset for75 mm dia pipe	each	315.00
3708	S.C.I. S&S, 150 mm offset for100 mm dia pipe	each	430.00
3712	S.C.I. S&S, 114 mm offset for75 mm dia pipe	each	310.00
3713	S.C.I. S&S, 114 mm offset for100 mm dia pipe	each	405.00
3716	S.C.I. S&S, 152 mm offset for75 mm dia pipe	each	390.00
3717	S.C.I. S&S, 152 mm offset for100 mm dia pipe	each	505.00
3728	S.C.I. S&S door pieces 100 mm dia	each	325.00
3729	S.C.I. S&S door pieces 75 mm dia	each	250.00

CODE	NAME OF MATERIALS	UNIT	RATE
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	220.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	200.00
3738	S.C.I. S&S, collars 100 mm	each	230.00
3739	S.C.I. S&S, collars 75 mm	each	160.00
3746	S.C.I. S&S, 76 mm offset for 75 mm dia pipe	each	180.00
3747	S.C.I. S&S, 76 mm offset for 100 mm dia pipe	each	310.00
3749	Vitreous china toilet paper holder of standard size	each	150.00
3860	560 mm dia cover with frame (Heavy duty)	each	3000.00
3861	560 mm dia cover without frame (Heavy duty)	each	2600.00
4006	Pressed steel door frames (mild steel sheet 1.25mm) Profile "A"	metre	350.00
4007	Pressed steel door frames (mild steel sheet 1.25mm) Profile "B"	metre	375.00
4008	Pressed steel door frames (mild steel sheet 1.25mm) Profile "C"	metre	400.00
4009	Mild steel tubes hot finished welded type	kilogram	87.00
4010	Mild steel tubes hot finished seamless type	kilogram	110.00
4011	Mild steel tubes electric resistant or inductionbutt welded	kilogram	80.00
4012	Circular C.I. Box for ceiling fan	each	60.00
4013	Pully 40 mm dia	each	40.00
4014	Ready made steel door with necessary hinges, lugs and glazing clips excluding other fittings & their fixing	sqm	2200.00
4201	Aluminium primer	litre	225.00
4202	Red oxide Zinc chromate primer	litre	240.00
4203	Copper acetate	kilogram	350.00
4204	Hydrochloric acid	kilogram	35.00
4205	Copper chloride	kilogram	350.00
4206	Copper nitrate	kilogram	250.00
4207	Ammonium chloride	kilogram	20.00
5001	Mobil oil	litre	150.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	4000.00
6007	Pink marble slab plain 18mm thick	sqm	950.00
6010	Udaypur green marble slab plain 18mm thick	sqm	800.00
6019	Black Zebra marble slab plain 18mm thick	sqm	650.00
6501	Sand zone V ()	cum	300.00
6502	Sand as per Table 1500. 5	cum	1000.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	400.00
7003	Pair of Anodised Aluminium lever handles for 100mm mortice latch and lock	each	260.00
7004	Vitreous china flat back wash basin 450x300 mm	each	600.00
7005	Vitreous china 10 litres low level cistern without fittings	each	1500.00
7006	Vitreous china 10 litres low level cistern with fittings	each	2000.00
7008	F.P.S. clay fly ash bricks class designation 75	1,000 Nos	4400.00
7009	Gypsum board	sqm	300.00
7010	Ceiling sections	metre	58.00
7011	Perimetre channel	metre	35.00
7012	Intermediate channel	metre	61.00
7013	Ceiling angle	metre	23.00
7014	Connecting clips	each	7.00
7015	Soffit cleat	each	4.00
7016	Joint filler	kilogram	29.00
7017	Joint finisher	kilogram	32.00
7018	Joint tape roll	roll	162.00
7019	Dash fastner/ chemical fastener	each	14.00
7020	All drive screws (for gypsum board)	100 Nos	58.00
7021	Primer (for gypsum board)	litre	130.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	220.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	9820.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	120.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	200.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	725.00
7034	Nickle plated M.S. pipe 20 mm dia.	metre	73.00
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	4.00
7036	Nickle plated M.S. Brackets for curtain rod 25 mm	each	6.00
7040	Oxidised mild steel screws 35 mm	100 Nos	41.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	61.00

CODE	NAME OF MATERIALS	UNIT	RATE
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	69.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	890.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1020.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	460.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	520.00
7048	Rawl plug 50 mm (designation 10 no.)	each	9.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	23.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	420.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	48.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	61.00
7060	Hydraulic door closer tubular type Aluminium section body	each	1600.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	21.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	18.00
7065	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	17.00
7068	Extra for providing grilles rolling shutters with 8 mm dia M.S. rod	sqm	295.00
7070	Chequered precast cement concrete tiles 22mm thick using marble chips of size 6mm - Light shade using white cement	sqm	170.00
7071	White marble Raj Nagar plain 20 mm thick (slab area 0.10 sqm to 0.20 sqm)	sqm	650.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	650.00
7087	S.C.I. Tee 150 mm	each	800.00
7090	Expanded polystyrene type N- Normal	sqm	165.00
7091	Expanded polystyrene type - SE	sqm	200.00
7092	Stainless steel kitchen sink Size 18x16x6 inches	each	3200.00
7093	Stainless steel kitchen sink Size 22x18x7 inches	each	3800.00
7094	Stainless steel kitchen sink Size 24x18x8 inches	each	6500.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	6900.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	6430.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	5730.00
7098	Stainless steel kitchen sink - with drain board 510x1040mm bowl depth 178 mm	each	3630.00
7099	Stainless steel kitchen sink Size 37x18x7 inches with drain board	each	7700.00
7100	Stainless steel kitchen sink Size 45x20x8 inches with drain board	each	10825.00
7101	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm	each	3780.00
7102	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	3500.00
7103	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	2250.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	3220.00
7105	Coloured Pedestal type W.C. pan (European type)	each	2600.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	2100.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	400.00
7108	Non-breakable of other approved make Black.seat in European W.C. pan	each	250.00
7109	Non-breakable of other approved make White.seat in European W.C. pan	each	300.00
7110	Non-breakable of other approved make Coloured.seat in European W.C. pan	each	350.00
7111	C.P. lugs for toilet seat cover.		95.00
7112	Circular shape 500 mm dia Mirror with Plastic moulded frame	each	460.00
7113	Rectangular shape 500x400 mm Mirror with Plastic moulded frame	each	450.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	500.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	900.00
7116	Hard board 6 mm thick	sqm	210.00
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	80.00

CODE	NAME OF MATERIALS	UNIT	RATE
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	90.00
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	60.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	70.00
7123	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	1050.00
7126	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	1420.00
7127	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	2110.00
7128	S.W. intercepting trap 100 mm dia	each	275.00
7129	S.W. intercepting trap 150 mm dia	each	350.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	1270.00
7131	Square shape 350x350 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	870.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	1040.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	2310.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	2310.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	2900.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	3300.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthe	sqm	2250.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded w	sqm	2430.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board.	sqm	2350.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1950.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	2000.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	1850.00
7157	Laminated veneer lumber confirming to TADSS IS:1995 manufactured in factory in frames of doors, windows	10 cudm	850.00
7181	C.I. pile shoe	kilogram	53.00
7182	M.S. clamps for pile shoe	kilogram	46.00
7183	Bentonite	tonne	3700.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	69.00
7187	C.I. grating 150 mm dia. (Weighing not less than 440 gm)	each	52.00
7188	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia.	metre	150.00
7189	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia.	metre	275.00
7190	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia.	each	25.00
7191	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia.	each	30.00

CODE	NAME OF MATERIALS	UNIT	RATE
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	57.00
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	75.00
7194	UPVC pushfit coupler (single) 75 mm thick	each	90.00
7195	UPVC pushfit coupler (single) 110 mm thick	each	137.00
7196	UPVC single equal Tee (with door) 75x75x75 mm	each	158.00
7197	UPVC single equal Tee (with door) 110x110x110 mm	each	220.00
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	190.00
7199	UPVC single equal Tee (with door) 110x110x110 mm	each	305.00
7208	UPVC bend 87.5o 75 mm bend	each	96.00
7209	UPVC bend 87.5o 110 mm bend	each	160.00
7212	UPVC plain shoe 75 mm bend	each	200.00
7213	UPVC plain shoe 110 mm bend	each	375.00
7214	UPVC pipe clip 75 mm bend	each	29.00
7215	UPVC pipe clip 110 mm bend	each	57.00
7231	Resin Bonded Glass wool 16 kg/m ³ 50 mm thick	sqm	221.00
7232	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	332.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	126.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	200.00
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement, 50% ordinary cement	sqm	250.00
7239	Epoxy paint	litre	400.00
7240	Fire retardant paint	litre	450.00
7241	Melamine polish	litre	350.00
7242	Epoxy primer for steel	lt	2050.00
7243	Epoxy harder and resin	kg	1150.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	2000.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	sqm	2250.00
7246	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification a	per test	27200.00
7247	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification &	per test	38100.00
7248	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification &	per test	52000.00
7249	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Single pile upto 50 tonne capacity	per test	16200.00
7250	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. forSingle pile above 50 tonne capacity pile and upto 100 tonne capacity pile	per test	25200.00
7251	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. forGroup of two piles upto 50 tonne capacity each	per test	29300.00
7252	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile. Upto 50 tonne capacity	per test	16200.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile. Above 50 tonne capacity	per test	26000.00
7254	Hardening compound	litre	48.00
7255	Road marking paint (spirit based)	litre	150.00
7256	Superior quality road marking paint	litre	230.00
7257	C.P. Brass bibcock 15 mm	each	520.00
7258	C.P. Brass long nose bibcock 15 mm	each	920.00
7259	C.P. Brass long body bibcock 15 mm	each	705.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	1000.00
7261	C.P. Brass angle valve 15 mm	each	470.00
7266	Pressed clay tiles	1,000 Nos	12500.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	140.00

CODE	NAME OF MATERIALS	UNIT	RATE
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	125.00
7269	25 mm thick particle board	sqm	550.00
7270	30 mm thick prelaminated flush door shutter	sqm	990.00
7271	IIInd class teak wood lipping 25 mm wide x 12 mm thick	metre	47.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	940.00
7295	Jhunjhunu / Jalore (Red/Choclate/Black/Pink Colour) 18 mm thick slab, upto 1500 cm2	sqm	1000.00
7296	Jhunjhunu / Jalore (Red/Choclate/Black/Pink Colour) 18 mm thick slab, above 1500 upto 3600 cm2	sqm	1200.00
7297	Jhunjhunu / Jalore (Red/Choclate/Black/Pink Colour) 18 mm thick slab, above 3600 cm2	sqm	1400.00
7298	Granite South Red 18 mm thick slab, upto 1500 cm2	sqm	1500.00
7299	Granite South Red 18 mm thick slab, above 1500 upto 3600 cm2	sqm	2000.00
7300	Granite South Red 18 mm thick slab, above 3600 cm2	sqm	3000.00
7301	South Zed Black 18 mm thick slab, upto 1500 cm2	sqm	1200.00
7302	South Zed Black 18 mm thick slab, above 1500 upto 3600 cm2	sqm	2200.00
7303	South Zed Black 18 mm thick slab, above 3600 cm2	sqm	3000.00
7304	Good quality South Black 18 mm thick slab, upto 1500 cm2	sqm	900.00
7305	Good quality South Black 18 mm thick slab, above 1500 upto 3600 cm2	sqm	1800.00
7306	Aluminium T or L sections	kilogram	250.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	600.00
7308	Good quality South Black 18 mm thick slab, above 3600 cm2	sqm	1950.00
7309	Paving Asphalt 60/70 penetration	tonne	56600.00
7312	Expandable fastner with plastic sleeve and M.S. screws. 25 mm long	each	12.00
7313	Expandable fastner with plastic sleeve and M.S. screws. 32 mm long	each	13.00
7314	Expandable fastner with plastic sleeve and M.S. screws. 40 mm long	each	14.00
7315	Expandable fastner with plastic sleeve and M.S. screws. 50 mm long	each	15.00
7318	Plasticizer / super plasticizer	kilogram	46.00
7319	Wall form panel 1250x500 mm	each	830.00
7320	Tie bolt 12 mm dia 100 mm length	each	46.00
7321	Tie bolt 12 mm dia 150 mm length	each	58.00
7322	Tie bolt 20 mm dia 150 mm length	each	81.00
7323	Tie bolt 20 mm dia 225 mm length	each	98.00
7324	Spring coil 12 mm	each	15.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	250.00
7327	100 mm channel shoulder 2.5 m long	each	870.00
7328	Double clip (bridge clip)	each	87.00
7329	Single clip	each	75.00
7330	M.S. tube 40 mm dia	metre	220.00
7331	Wall form panel 1250x450 mm	each	750.00
7332	Corner angle 45x45x5 m 2.50 m long	each	350.00
7333	Column clamp 450x1070 m	each	1200.00
7334	Prop 2 m (2-3.5m)	each	870.00
7335	Binding wire	kilogram	90.00
7338	Gun metal cramp	kilogram	405.00
7339	Stainless steel cramp	kilogram	420.00
7340	Stainless steel pin .	kg	180.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1970.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1155.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	470.00
7345	Prop 4 m	each	1270.00
7346	Double coupler	each	58.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	35.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	12.00
7349	12 mm M.S. 'U' beading	metre	14.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	133.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	1100.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	600.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	650.00
7363	15 mm C.P. brass tap with elbow operation lever	each	870.00
7364	White glazed fire clay draining board 600x450x25 mm	each	550.00
7366	Glass reinforced Gyp sum (GRG) board 8.5 mm thick	sqm	290.00

CODE	NAME OF MATERIALS	UNIT	RATE
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	85.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	metre	85.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	500.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1230.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1500.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	2140.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	1720.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	820.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	385.00
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887-1995	tonne	44000.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	705.00
7386	12 thick particle board ceiling tile	sqm	400.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	45.00
7389	Anodising 15 microns on aluminium sections	kilogram	45.00
7390	Neoprin/EPDM rubber gasket	metre	60.00
7391	Anodising 25 microns on aluminium sections	kilogram	55.00
7392	Epoxy powder coating 50 microns on aluminium sections.	kilogram	65.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	75.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1550.00
7395	6 mm dia. G.I. adjustable hangers including clips (upto 1.2 m length)	each	35.00
7396	Double action hydraulic floor spring with brass cover plate	each	2500.00
7397	Base jack	each	255.00
7398	Challies	each	990.00
7399	Cup lock	each	105.00
7400	15 mm PTMT bib cock	each	225.00
7401	15 mm PTMT bib cockwith flange (fancy)	each	310.00
7402	15 mm PTMT bib cock long body with flange	each	370.00
7403	15 mm dia PTMT stop cock (male thread)	each	235.00
7405	20 mm dia. PTMT stop cock	each	265.00
7406	PTMT pillar cock	each	380.00
7407	PTMT push cock 15 mm dia.	each	185.00
7408	PTMT push cock 12 mm dia. 20 mm BSP	each	185.00
7409	PTMT grating 100 mm dia.	each	82.00
7410	PTMT pillar cock (fancy) 15 mm foam flow.	each	400.00
7411	125 mm grating withwaste hole	each	80.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	130.00
7415	Double acting air valve 50 mm	each	4270.00
7416	Double acting air valve 80 mm	each	6300.00
7417	Double acting air valve 100 mm	each	8100.00
7418	Water meter (including testing charges) 80 mm	each	2500.00
7419	Water meter (including testing charges) 100 mm	each	3900.00
7420	Water meter (including testing charges) 150 mm	each	5600.00
7421	Water meter (including testing charges) 200 mm	each	6300.00
7422	Dirt box strainer 80 mm	each	3500.00
7423	Dirt box strainer 100 mm	each	5250.00
7424	Dirt box strainer 150 mm	each	6800.00
7425	Dirt box strainer 200 mm	each	9500.00
7426	Cat's eye	each	650.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	460.00
7428	Water stops Dumb bell with central bulb	metre	439.00
7429	Kickers	metre	440.00
7430	Wedge expansion hold fastner 1/4" or 6 mm	each	15.00
7431	Wedge expansion hold fastner 3/8" or 10 mm	each	18.00
7432	Wedge expansion hold fastner 1/2" or 12 mm	each	35.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	610.00
7442	Wheel 75 mm dia. 40 mm wide	each	72.00
7443	Aluminium single cleat of size 30x32x3	each	15.00
7444	Aluminium grip strip of size 50x12x2	each	12.00

CODE	NAME OF MATERIALS	UNIT	RATE
7445	25 mm prelaminated flush door both side decorative	sqm	870.00
7449	Aluminium U beading	kilogram	270.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	225.00
7452	Raj nagar I quality plain white marble (table rubbed and polished) 18 mm thick upto 1500 cm ²	sqm	550.00
7453	Raj nagar plain I quality white marble (table rubbed and polished) 18 mm thick above 1500 and upto 3600 cm ²	sqm	700.00
7454	Raj nagar plain I quality white marble (table rubbed and polished) 18 mm thick above 3600 cm ²	sqm	800.00
7455	Makrana Adanga 15-18mm upto 1500 cm ²	sqm	800.00
7456	Makrana Adanga 15-18mm above 1500 and upto 3600 cm ²	sqm	900.00
7457	Makrana Adanga 15-18mm above 3600 cm ²	sqm	1100.00
7458	Keseriaji/ Abu Ambaji (Green Marble)15-18mm upto 1500 cm ²	sqm	650.00
7459	Keseriaji/ Abu Ambaji (Green Marble)15-18mm above 1500 and upto 3600 cm ²	sqm	750.00
7460	Keseriaji/ Abu Ambaji (Green Marble) 15-18mm above 3600 cm ²	sqm	950.00
7461	Bhaislana,Abu,Kishangarh Zebra (Black Marble) 5-18mm upto 1500 cm ²	sqm	550.00
7462	Bhaislana,Abu,Kishangarh Zebra (Black Marble) 15-18mm above 1500 and upto 3600 cm ²	sqm	650.00
7463	Bhaislana,Abu,Kishangarh Zebra (Black Marble) 15-18mm above 3600 cm ²	sqm	800.00
7466	Second class deodar teak wood lipping 30 mm widthx12mm	metre	40.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	700.00
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	950.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)18 mm thick	sqm	1100.00
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)25 mm thick	sqm	1350.00
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	950.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	41.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	46.00
7491	PTMT Waste Coupling 31/32MM	Each	120.00
7492	PTMT Waste Coupling 38/40MM	Each	165.00
7493	PTMT Bottle Trap 31/32MM	Each	670.00
7494	PTMT Bottle Trap 38/40MM	Each	700.00
7495	PTMT Ball Cock 15mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	350.00
7496	PTMT Ball Cock 20mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	520.00
7497	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	970.00
7498	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	1620.00
7499	PTMT Ball Cock 50mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	Each	2400.00
7500	PTMT Angle Stop cock with Flange 15mm	Each	290.00
7501	PTMT Swiveling shower 15mm	Each	250.00
7503	PTMT Liquid Soap Container of 400ml capacity	Each	350.00
7504	PTMT Towel Ring 215xd200x37mm	Each	240.00
7505	PTMT Towel Rail (450MM)	Each	450.00
7506	PTMT Towel Rail (600MM)	Each	540.00
7507	PTMT Shelf 450x124x36mm	Each	610.00
7508	PTMT Urinal Spreader 15MM	Each	270.00
7509	PTMT Soap Dish/Holder 138x102x75mm	Each	240.00
7512	PTMT handle 125x34x24mm	Each	47.00
7513	PTMT handle 150x34x24mm	Each	51.00

CODE	NAME OF MATERIALS	UNIT	RATE
7514	PTMT butt hinges 75x60x10mm	Each	62.00
7515	PTMT butt hinges 100x75x10mm	Each	82.00
7516	PTMT Tower bolt 152x42x18mm	Each	105.00
7517	PTMT Tower bolt 202x42x18mm	Each	125.00
7518	PTMT door catcher 72x42mm	Each	41.00
7519	Synthetic Material(PTMT) of approved quality/make size 525 x90 x 75mm	Each	230.00
7520	Synthetic Material(PTMT) of approved quality/make size 675 x90 x 75mm	Each	260.00
7521	Synthetic Material (PTMT) Towel Ring of approved quality/make.	Each	230.00
7552	Coir veneered board 4mm thick	sqm	360.00
7553	Coir veneered board 6mm thick	sqm	470.00
7555	Coir veneered board 12mm thick	sqm	835.00
7556	Coir veneered board 18mm thick	sqm	1250.00
7557	Jalore (P-white / S-white/ Rosy Pink colour),Up to 1500 Cm ² Tiles	sqm	200.00
7558	Jalore (P-white / S-white/ Rosy Pink colour),1501 Cm ² to 3600 Cm ² Tiles	sqm	400.00
7559	Jalore (P-white / S-white/ Rosy Pink colour),Above 3601 Cm ² Slabs	sqm	600.00
7560	Rajasthan Black,Up to 1500 Cm ² Tiles	sqm	400.00
7561	Rajasthan Black,1501 Cm ² to 3600 Cm ² Tiles	sqm	600.00
7562	Rajasthan Black,Above 3601 Cm ² Slabs		900.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100mm dia	Metre	920.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150mm dia	Metre	1370.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200mm dia	Metre	1890.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250mm dia	Metre	2435.00
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	Metre	3130.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	Metre	3670.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	Metre	5260.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	Metre	5850.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	Metre	7830.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	Metre	8770.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	Metre	12000.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	Metre	13600.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	Metre	14000.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	Metre	16300.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	Metre	18350.00
7666	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 100mm dia	Each	38.00
7668	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 150mm dia	Each	53.00
7669	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 200mm dia	Each	95.00
7670	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 250mm dia	Each	105.00
7671	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 300mm dia	Each	150.00
7672	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 350mm dia	Each	190.00
7673	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 400mm dia	Each	380.00
7674	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 450mm dia	Each	420.00
7675	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 500mm dia	Each	435.00
7676	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 600mm dia	Each	530.00
7677	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 700mm dia	Each	840.00
7678	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 750mm dia	Each	990.00
7679	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 800mm dia	Each	1100.00
7680	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 900mm dia	Each	1480.00
7681	Ruber Gaskets Conforming to LS 5382 of S.B.R quality 1000mm dia	Each	1815.00
7682	Ductile Iron K - 12 specials suitale for push on jointing upto 600mm dia	Quintal	12500.00
7683	Ductile Iron K - 12 specials suitale for push on jointing over 600mm dia	Quintal	18800.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - upto 600mm dia	Quintal	13150.00
7685	Ductile Iron Specials suitable for mechancial jointing as per I.S. 9523 over 600mm dia	Quintal	19900.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	Metre	2650.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	3650.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200mm dia	Metre	4750.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250mm dia	Metre	6300.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300mm dia	metre	8100.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	Metre	10080.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	Metre	12050.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	Metre	14550.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	Metre	17650.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	Metre	24000.00

CODE	NAME OF MATERIALS	UNIT	RATE
7696	Ductile Iron Pipe Class K-9 flanges and welding 700mm dia	Metre	29500.00
7697	S&S Centrifugally (Spun) C.I. Pipe class 75mm dia (300 cm long)	Each	2770.00
7698	S&S Centrifugally (Spun) C.I. Pipe class 100mm dia (300 cm long)	Each	3400.00
7699	S&S Centrifugally (Spun) C.I. Pipe class 150mm dia (300 cm long)	Each	6215.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	Metre	1930.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	Metre	2735.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	Metre	3640.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	4500.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	Metre	5500.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	Metre	6580.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	Metre	8010.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600mm dia	Metre	10600.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing upto 300mm dia	Quintal	4950.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300mm dia	Quintal	5580.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 upto 300mm dia	Quintal	7500.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitabe for mechanical joint as per IS 13382 over 300mm dia	Quintal	7800.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100mm dia	Metre	1370.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150mm dia	Metre	2120.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200mm dia	Metre	2950.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250mm dia	Metre	3920.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300mm dia	Metre	5000.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350mm dia	Metre	6400.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400mm dia	metre	8100.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450mm dia	Metre	10700.00
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500mm dia	metre	14000.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600mm dia	Metre	18200.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	Metre	850.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	Metre	1220.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	Metre	1730.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	Metre	2350.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	Metre	3310.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	Metre	3820.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	Metre	4550.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	Metre	5400.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	Metre	6400.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	8400.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	Metre	10450.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	Metre	14550.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	17900.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	21700.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885 - 1988	1,000 Nos	5500.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894-1989	1,000 Nos	2800.00
7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139 - 1989	1,000 Nos	4850.00
7739	Modified Bitumen Refinary produced CRMB - 55	Tonne	56600.00
7741	Modified Bitumen Refinary produced CRMB - 60	tonne	56600.00
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	46200.00
7750	Toilet shelf W.V.C. Size 300mm	Each	375.00
7751	Toilet shelf W.V.C. Size 500mm	Each	450.00
7752	Toilet shelf Synthetic Material with tumbler size 470 x 114 x 36mm	Each	380.00
7753	Toilet shelf Hard Plastic of superior quality size 590x140mm	Each	450.00

CODE	NAME OF MATERIALS	UNIT	RATE
7754	Toilet shelf Acrylic shelf on C.P. brass casted brackets & guard rail of superior quality size 550x125mm	Each	785.00
7755	Toilet Glass Shelf with edges rounded off Anodised Aluminium angle frame & C.P. brass brackets & guard rail size 600x120mm	Each	290.00
7756	C.P. brass Towel Rail elbow type with concealed screws size 450mm (Heavy duty).	Each	405.00
7757	C.P. brass Towel Rail elbow type with concealed screws size 600 mm (Heavy duty).	Each	465.00
7758	C.P. brass towel rail with brackets 450 x 20mm.	Each	230.00
7759	C.P. brass towel rail with brackets 600 x 20mm.	Each	240.00
7760	WVC (1stquality, ISI Marked) of approved make. Recessed towel Hanger size 108 x 108mm.	Each	69.00
7761	C.P. Brass Towel Ring revolving type	Each	175.00
7773	Colored interlocking C.C. paver Block	Sqm	600.00
7774	Autoclaved Aerated Concrete (AAC) blocks Grade-I of density 551 to 650 kg/cum	Cum	3250.00
7799	Broken ceramic tiles	Kg	8.00
7800	Ceramic Glazed Tiles Ist quality size 200 mm x 300 mm in white, gray, ivory, fume red brown, light green, light blue and other light shades	Sq.m.	350.00
7801	Ceramic Mat finished Tiles Ist quality size 300 mm x 300 mm in white, gray, ivory, fume red brown, light green, light blue and other light shades	Sq.m.	380.00
7802	Ceramic Glazed Tiles Ist quality 300 x 300 in all shades designs except White, Ivory, Grey, Fuem Red Brown etc.	Sq.m.	350.00
7803	Rectified Ceramic Glazed Tiles Ist quality 300x300mm or more in all shades designs White, Ivory, Grey, Fuem Red Brown etc.	Sq.m.	550.00
7804	Rectified Ceramic Glazed Tiles Ist quality 300x300mm or more in all shades designs except White, Ivory, Grey, Fuem Red Brown etc.	Sq.m.	675.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578mm	each	4700.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355mm	each	2100.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345mm	each	1900.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	435.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	470.00
7810	75 mm wide decorative border	Rm	125.00
7811	Motive 200x200 mm	Each	125.00
7812	Motive 200x300 mm	Each	150.00
7813	Motive 300x300 mm	Each	190.00
7814	Motive 300x450 mm	Each	210.00
7815	Motive 300x600 mm	Each	250.00
7825	Ceramic Glazed Vitrified Tiles Size : 600mm x 1200mm	Sqm	1025.00
7826	Ceramic Glazed Vitrified Tiles Size : 800mm x 1200mm	Sqm	1360.00
7827	Ceramic Glazed Vitrified Tiles Size : 196mm x 1215mm	Sqm	1355.00
7828	Ist Qulality MAT and glossy finished ceramic tiles Size : 250mm x 375mm	Sqm	320.00
7829	Ist Qulality MAT and glossy finished ceramic tiles Size : 300mm x 450mm	Sqm	425.00
7830	Ist Qulality MAT and glossy finished ceramic tiles Size : 300mm x 600mm	Sqm	525.00
7831	Ist Qulality MAT and glossy finished ceramic tiles Size : 250mm x 1000mm	Sqm	900.00
7832	Ist quality heavy duty Vitrified polished digital tile size:298mmX 298mm	Sqm	460.00
7833	Ist quality heavy duty Vitrified polished digital tile size:300mmX450 mm	Sqm	475.00
7834	Ist quality heavy duty Vitrified polished digital tile size:600mmX600 mm	Sqm	700.00
7835	Ist quality MAT & GLOSSY finished ceramic tile 600mm x 600mm	Sqm	750.00
7850	Agaria White marble slab plain 18mm thick	sqm	1325.00
7857	P.T.M.T. Grating square slit 150mm	each	150.00
7858	P.T.M.T. Urinal cock 15mm dia	each	155.00
7859	P.T.M.T. Bib cock with nozzle 15mm	each	200.00
7861	P.T.M.T. Stop cock (concealed) 15mm	each	275.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	67.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	84.00
7864	P.T.M.T. extension nipple 15mm	each	42.00
7865	P.T.M.T. extension nipple 20mm	each	51.00
7866	P.T.M.T. extension nipple 25mm	each	75.00
7896	Vitrified tile	Sqm	350.00
7900	Modular bricks of class designation 100	1,000 Nos	5200.00
7901	Machine moulded perforated FPS bricks of class designation 125	1,000 Nos	5200.00

CODE	NAME OF MATERIALS	UNIT	RATE
7902	Machine moulded modular perforated bricks of class designation 125	1,000 Nos	5200.00
7903	Machine moulded FPS bricks of class designation 125	1,000 Nos	5200.00
7904	Machine moulded tile bricks of class designation 125	1,000 Nos	5000.00
8001	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1500.00
8002	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1560.00
8003	Factory made PVC rigid foam panelled shutter	sqm	1865.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020	sqm	2000.00
8006	Factory made PVC rigid foam sheet 1mm thick	sqm	185.00
8007	Factory made PVC rigid foam sheet 5mm thick	sqm	770.00
8008	Factory made prelaminated PVC rigid foam sheet 5mm thick	sqm	925.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	190.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	230.00
8012	Adhesive solvent cement	kg	130.00
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	95.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	110.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	150.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	250.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	175.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	225.00
8206	Bitumen primer for bitumen membrane	litre	110.00
8207	Geotextile 120 gsm membrane	sqm	40.00
8210	Stainless steel screws 50 mm	100 Nos	305.00
8211	Stainless steel screws 40 mm	100 Nos	250.00
8212	Stainless steel screws 30 mm	100 Nos	150.00
8214	Stainless steel screws 20 mm	100 Nos	100.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	315.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	210.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	175.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	150.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	485.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	430.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	370.00
8222	M.S. heavy weight butt hinges 125x90x4.0mm IS : 1341 marked.	10 10 Nos	330.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 10 Nos.	170.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 10 Nos	98.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 10 Nos	81.00
8300	1216 mm PE-AL-PE Composit pressure pipe	Metre	90.00
8301	1620 mm PE-AL-PE Composit pressure pipe	Metre	100.00
8302	2025 mm PE-AL-PE Composit pressure pipe	Metre	130.00
8303	2532 mm PE-AL-PE Composit pressure pipe	Metre	190.00
8304	3240 mm PE-AL-PE Composit pressure pipe	Metre	240.00
8305	4050 mm PE-AL-PE Composit pressure pipe	Metre	350.00
8501	Polymer modified cementation coating	kilogram	290.00
8502	Fibre glass cloth	sqm	50.00
8504	Multi surface paint	litre	460.00
8505	Acrylic exterior paint	litre	450.00
8506	Premium Acrylic exterior paint	litre	250.00
8507	Textured exterior paint	litre	350.00
8508	Primer for cement paint	litre	158.00
8509	Special Primer	litre	190.00
8510	Metal Primer	litre	130.00
8520	Edge blocks 60 mx2	cum	110.00
8521	inter-locking block , M-30, 60 mm thick ,Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	578.00
8522	inter-locking block , M-30, 60 mm thick,Category 'B' Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	sqm	551.00
8523	inter-locking block , M-30, 60 mm thick ,Category 'C'not denated on any its faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	sqm	525.00

CODE	NAME OF MATERIALS	UNIT	RATE
8524	inter-locking block , M-35, 60 mm thick ,Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	709.00
8525	inter-locking block , M-35, 60 mm thick ,Category B Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	683.00
8526	inter-locking block , M-35, 60 mm thick ,Category C Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	609.00
8527	inter-locking block , M-40, 80 mm thick ,Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	824.00
8528	inter-locking block , M-40, 80 mm thick ,Category B Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	798.00
8529	inter-locking block , M-40, 80 mm thick ,Category C Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	746.00
8530	inter-locking block , M-50, 100 mm thick ,Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	1024.00
8531	inter-locking block , M-50, 100 mm thick ,Category B Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	998.00
8532	inter-locking block , M-50, 100 mm thick ,Category C Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	945.00
8533	inter-locking block , M-55, 120 mm thick ,Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	1213.00
8534	inter-locking block , M-55, 120 mm thick ,Category B Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	1187.00
8535	inter-locking block , M-55, 120 mm thick ,Category C Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	sqm	1134.00
8536	25 mm thick Non slippery reflective type designer paving tile ,M 40 grade	sqm	788.00
8537	25 mm thick Non slippery reflective type designer paving tile ,M 30 grade	sqm	683.00
8561	Extruded polystyrene rigid insulation board 50mm thick	sqm	570.00
8589	Calcium Silicate tegular edged ceiling tiles	Sqm	901.00
8590	Galvanised Steel main Tee ceiling section Size	Each	140.00
8591	Galvanised Steel perimeter wall Angle Size 24 x	Each	140.00
8592	Galvanised Steel intermediate cross T section	each	140.00
8593	Galvanised Steel intermediate cross T section	each	140.00
8595	Wooden screws with plastic rawl plugs 35mm x8mm	each	140.00
8596	Galvanised iron 8mm Outer Diameter M-6 dash fastener 50 mm long	each	44.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	230.00
8612	Perimeter wall angle 21x21x0.3mm (3 metre long)	each	145.00
8613	Intermediate cross T-section 24x25x0.3mm (1.2 mtrs long)	each	87.00
8614	Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long)	each	41.00
8615	Hanger rod 0.5 mm thick	each	12.00
8616	Adjustment clip	each	6.00
8617	Soffit cleat	each	3.00
8618	Dash fastener 6 mm dia 50 mm long	each	12.00
8619	alvanised iron L-Shape level Adjuster	each	17.00
8620	Vitrified floor tile 50x50 cm	sqm	463.00
8621	Vitrified floor tile 60x60 cm	sqm	566.00
8622	Vitrified floor tile 80x80 cm	sqm	766.00
8623	Vitrified floor tile 100x100 cm	sqm	809.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 Outer dia	metre	52.00
8626	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 20mm Outer dia.	metre	69.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25mm Outer dia.	metre	116.00
8628	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 32mm Outer dia.	metre	185.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40mm Outer dia.	metre	280.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50mm Outer dia.	metre	430.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63mm Outer dia.	metre	650.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75mm Outer dia.	metre	805.00

CODE	NAME OF MATERIALS	UNIT	RATE
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90mm Outer dia.	metre	1285.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110mm Outer dia.	metre	1345.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160mm Outer dia.	metre	2835.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	73.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	91.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	130.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	181.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	285.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	410.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	1140.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia.	metre	1500.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia.	metre	2080.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	3625.00
8646	Silicon sealant.	cartridge	360.00
8647	Stainless steel screws 30mmx4mm	cent	550.00
8648	Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long)	each	3780.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay. 205 x 19mm	each	185.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19mm	each	205.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay. 355 x 19mm	each	265.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x 19mm	each	495.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay. 710 x 19mm	each	910.00
8654	Masking tape.	metre	9.00
8655	Autoclaved aerated cement (AAC) blocks.	cum	2550.00
8656	Gypsum panel 666 X 500 X 100 mm size.	sqm	810.00
8657	Bonding Plaster for Gypsum Panel	kg	92.00
8658	Mechanised Autoclaved flyash lime bricks 100	1000 Nos.	5200.00
8659	Water proof ply 12mm thick.	Sqm.	1650.00
8660	Aluminium casement window fastner (Anodised AC 15)	each	90.00
8661	Aluminium casement window fastner (powder coated).	each	105.00
8662	Aluminium casement window fastner (polyester powder coated).	each	115.00
8663	Aluminium round shape handle (anodised AC 15)	each	140.00
8664	Aluminium round shape handle (powder coated)	each	165.00
8665	Aluminium round shape handle (polyester powder coated).	each	195.00
8666	Stainless steel screws 25mm x4mm	cent	145.00
8667	UV stabilised 2 mm thick plain FRP sheet .	sqm	745.00
8668	UV stabilised 3 mm thick plain FRP sheet .	sqm	1120.00
8669	Manglore ridge tilesx.....mm 20mm thick.	each	41.00
8670	Manglore tilesx.....mm 20mm thick.	each	23.00
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	440.00
8672	Precoated galvanised steel plain ridges.	metre	440.00
8673	Precoated galvanised steel flashings/aprons.	metre	440.00
8674	Precoated galvanised steel gutter	metre	480.00
8675	Precoated galvanised steel north light curves.	metre	480.00
8676	Precoated galvanised steel barge board.	metre	440.00
8677	Precoated galvanised steel crimp curve	sqm	560.00
8678	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	110.00
8683	Red sand stone gang saw cut 30mm thick.	sqm	460.00
8684	White sand stone gang saw cut 30mm thick.	sqm	750.00
8685	Delinitor	each	800.00
8686	Precast C.C. Kerb stone M - 25	cum	4800.00
8687	Thermoplastic paint	kg	100.00
8688	Glass beads	kg	120.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	578.00
8690	High intensity retro - reflective sheet.	sqm	1950.00
8691	Punched tape concertina coil 600 m dia. 10m openable length (Total length 90m)	bundle	1050.00
8692	RBT reinforced barbed wire.	metre	20.00
8693	Turn buckle and strengthening bolt.	each set	50.00
8694	Precast pavement slab 450 x 450 x 50mm (M - 30).	each	60.00
8695	Chain link fabric fencing mesh of size 50x50mm made of G.I. wire of dia. 3.15mm.	sqm	210.00

CODE	NAME OF MATERIALS	UNIT	RATE
8696	Chain link fabric fencing mesh of size 75x75mm made of G.I. wire of dia. 3.15mm.	sqm	160.00
8697	Chain link fabric fencing mesh of size 100x100mm made of G.I. wire of dia. 3.15mm.	sqm	120.00
8698	Stainless steel cramps with nuts, bolts and washer for dry stone cladding .	each	280.00
8699	8 mm thick tapered edge calcium silicate board .	sqm	350.00
8700	10 mm thick calcium silicate board.	sqm	430.00
8701	Chain link fabric fencing mesh of size 150x150mm made of G.I. wire of dia. 3.15mm.	sqm	110.00
8703	Telescopic drawer channels 300mm long .	set	450.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter .	each	29.00
8705	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	210.00
8706	25mm thick factory made PVC flash door shutter i/c carriage.	sqm	2800.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	450.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	3200.00
8710	Factory made solid PVC door frame 60 x 30mm i/c carriage.	metre	600.00
8711	28mm factory made solid PVC panel door shutter i/c carriage.	sqm	3200.00
8713	Fiber glass reinforced plastic chajja.	sqm	4900.00
8714	Magnetic catcher triple strip verticle type.	each	105.00
8715	Magnetic catcher double strip horizontal type.	each	90.00
8716	Mortice lock of approved make Godrej or equivalent with pair of CP handles	each	2850.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board .	sqm	450.00
8718	Almirah lock of approved make Godrej or equivalent	each	400.00
8719	2nd class teak wood lippling/ moulded beadbg or Taj beading of size 18X5mm	metre	50.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	85.00
8721	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	90.00
8722	Nylon sleeves & wooden screws (40mm)	each	3.00
8723	Counter sunk ribbed head screw 25mm.	cent	105.00
8724	12mm thick marine plywood conforming to IS:710	sqm	1500.00
8725	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	1280.00
8726	1.5mm thick decorative laminated sheet	sqm	800.00
8727	1.0mm thick decorative laminated sheet	sqm	650.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter	sqm	2700.00
8731	High polymer modified quickset tile adhesive.	per kg	50.00
8732	synthetic Fiber 6mm / 12mm	per pack of 125 gm	45.00
8733	Welded mesh 50x50x2.1 mm	sqm	205.00
8734	Welded mesh 50x25x2.1 mm	sqm	230.00
8735	Welded mesh 25x25x2.1 mm	sqm	260.00
8736	Expended metal size 20 - 25 mm size 18swg	sqm	235.00
8737	Steel pipe 80x40 16 gauge	Qty	8750.00
8738	Steel pipe 50x25 18 gauge	Qty	8850.00
8739	UV stabilised 5 mm thick plain FRP sheet .	sqm	1350.00
8740	Acoustical fine fissured tiles/ Mineral fibre high density tiles	Sqm	850.00
8741	Glass Fibre Reinforced Gypsum False ceiling tiles	Sqm	1150.00
8742	Earthen pots	Each	12.00
8743	Disc for floater	Each	6930.00
8744	Trowel blades	Each	6930.00
8745	Filter mats	Each	14000.00
8746	Top mat	Each	41600.00
8747	Concrete Cutter diamond saw	Each	5300.00
8748	Designer polished CC tiles	Sqm	650.00
8749	8mm thick laminated floor	Sqm	1850.00
8750	89 mm wide having both side laminations	Rm	700.00
8751	transaction/adaptation profile	Rm	550.00
8752	Aluminum grill (size 7.5mm x 6.0mm and opening of size 102mm x 99mm)	Sqm	1100.00
8753	Y & H section	Rm	90.00
8754	Anodising 15 microns on aluminium sections for grill	Sqm	700.00

CODE	NAME OF MATERIALS	UNIT	RATE
8755	Powder coating aluminum for grill	Sqm	850.00
8756	Polyester Powder coating for grill	Sqm	950.00
8757	SS wire gauge	Sqm	550.00
8758	Vertical blinds	Sqm	1400.00
8759	Horizontal blinds /Venation blind	Sqm	1500.00
8760	Drapery rod (20 gauge, 25.4 mm diameter)	Rm	250.00
8761	Sun control film	sqm	650.00
8762	Polysulphide	Kg	650.00
8763	Primer	Lt	1300.00
8764	Backup rod	Rm	60.00
8765	Masking tape, thiner	Rm	60.00
8766	Door frame RCC Size 75x50 mm	Rm	70.00
8767	Door frame RCC Size 75 x 75mm	Rm	85.00
8768	Door frame RCC Size 100 x 75mm	Rm	90.00
8769	Door frame RCC Size 125 x 75mm	Rm	98.00
8770	Stone Door frame single paitam Size 75 x 60mm	Rm	87.00
8771	Stone Door frame single paitam Size 75 x 75mm	Rm	98.00
8772	Stone Door frame single paitam Size 100 x 60mm	Rm	125.00
8773	Stone Door frame single paitam Size 100x 75mm	Rm	160.00
8774	Stone Door frame single paitam Size 125 x 100mm	Rm	175.00
8775	Stone Door frame Double paitam Size 100x 75mm	Rm	150.00
8776	Stone Door frame Double paitam Size 125 x 100mm	Rm	200.00
8777	PVC sheet 1 mm	sqm	420.00
8778	PVC sheet 1.5 mm	sqm	500.00
8779	PVC sheet 2 mm	sqm	560.00
8780	Melamine polish	Lt	450.00
8781	Melamine polish	Lt	350.00
8782	PW 6250 (PANEL)	Sqm	555.00
8783	PW 928 (PERIMETER SECTION)	Rm	46.00
8784	M.S. PIPE(20x20MM)WITH PRIMER COATING	Rm	48.00
8785	PW 10150 (PANEL)	Sqm	785.00
8786	PW 1228 (PERIMETER SECTION)	Rm	68.00
8800	Imidacloprid 30.5% EC	Ltr.	3850.00
8801	Termitubes	Rmt.	11.00
8802	Junction Box for antitermite work	Each	660.00
8803	Autoclave aerated blocks of Conforming to Grade-I	cum	3080.00
8804	polymer modified adhesive mortar	Kg.	15.00
8805	Hand Grinder for groove cutting	metre	330.00
8806	Heavy Duty Vitrified Polished Digital tiles 60x60 cm	sqm	745.00
8807	Heavy Duty Vitrified Polished Digital tiles 60x120 cm	sqm	1220.00
8808	Heavy Duty Vitrified glazed MAT tiles 60x60 cm	sqm	1016.00
8809	Heavy Duty Vitrified glazed MAT tiles 60x120 cm	sqm	1422.00
8810	Heavy Duty Vitrified Double Charged tiles 60x60 cm	sqm	813.00
8811	Heavy Duty Vitrified Double Charged tiles 80x80 cm	sqm	1016.00
8812	Heavy Duty Vitrified Double Charged tiles 100x100 cm	sqm	1151.00
8813	19mm thick BWP block board	sqm	968.00
8814	Front side finishing with 4mm thick teak veneer	sqm	860.00
8815	Outer Bidding 35mm x 12mm	Rmt.	70.00
8816	Brass Lock	each	200.00
8817	4.0mm thick veneer	sqm	1100.00
8818	6.00mm thick veneer	sqm	1350.00
8819	S.S. Rod pipe 30mm	Rmt.	300.00
8820	S.S. Rod pipe 30mm (Bracket)	Each	100.00
8821	Stainless steel (Grade-304)hollow section round/square tubes	Kg.	275.00
8821(a)	Stainless steel (Grade-204)hollow section round/square tubes	Kg	200.00
8822	Stainless steel bolts/square bar and plates	Kg.	130.00
8823	GI metal Tile Lay-in Plain Tegular edge global white color tiles of size 595x595mm and 0.5mm thick	Sqm	825.00
8824	Main T Ceiling sections 24x38x0.3mm (3 metre long)	Each	205.00
8825	Perimeter wall angle 24x24x0.3mm(3 metre long)	Each	130.00
8826	Intermediate cross T-ection 24x25x0.3mm (1.2 m long) on grid for cut outs	Each	80.00
8827	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long) on grid for cut outs	Each	37.00
8828	Hanger rod 4mm thick	Each	8.00

CODE	NAME OF MATERIALS	UNIT	RATE
8829	Adjustment clip 85x30x0.8mm	Each	7.00
8830	Soffit cleat (Size 27x37x25x1.60mm)	Each	3.00
8831	Dash Hold fastener 12.5 mm dia 50 mm long	Each	42.00
8832	GI metal Tile Lay-in Perforated Tegular edge global white color tiles of size 595x595mm and 0.5mm thick	sqm	935.00
8833	Mineral Fibre Anti Bacterial Suspended beveled tegular edge ceiling tiles	Sqm	945.00
8834	G.I. Main Runner 15mm x 32mm 3000 mm Length 0.33 mm thick	Each	195.00
8835	G.I. Cross Tee 15mm x 32mm 1200 mm Length 0.33 mm thick	Each	81.00
8836	G.I. Cross Tee 15mm x 32mm 600 mm Length 0.33 mm thick	Each	41.00
8837	Mineral Fibre Acoustical Suspended beveled tegular edge ceiling tiles	Sqm	865.00
8838	Primer (10 Sqm. P.Ltr in to Coats)	Ltr.	140.00
8839	for putty Choke Mitty	kg	15.00
8840	Linseed oil	Ltr.	250.00
8841	Varnish	Ltr.	255.00
8842	Enamel Paint	Kg	270.00
8843	Velvet touch paint (5 Sqm. P.Ltr. For three coat)	Ltr.	500.00
8844	Primer (20 Sqm. In 1 Ltr. for one coat)	Ltr.	150.00
8845	Primer	Ltr.	270.00
8846	Duco Putty	kg	190.00
8847	Thinner	Ltr.	160.00
8848	Duco Paint	Ltr.	500.00
8849	Hire Charges of Spray Machine	Day	500.00
8850	Core cutting machine	day	15000.00
8851	Nano Technology 5mm Crack Filling High Strength Chemical	Liters	400.00
8852	Nano Technology Highly Hydrophobic Deep Penetrating Primer	Liters	480.00
8853	Fiber Mess Net Pasting on Roof	sqm.	32.00
8854	Nano Technology Oiliphobic Water Proof, Water Based, Breathable Coat	Liters	600.00
8855	Aerogel Green Based Thermal Insulation 1000 Micron Coating With Sri Value 102 or More	Liters	700.00
8856	Nano Technology Anti Static + Anti Stain+ Anti Skid+High Gloss Top Coat	Liters	300.00
8858	Nano Technology Degreasing Stone Cleaner, Non Acidic, Non Alkaline, Non Harmful For Cleaning of Stones, Without Damaging Stones	Liters	350.00
8859	Nano Technology Deep Penetrating Primer Deep Penetrating 2-3 MM Inside.	Liters	350.00
8860	Silicon Dioxide formulated with nano technology sol gel process, water based, UV Protection & Breathable Product- Giving Effects of water proof stone, Breathable, with no change in Stone color, Absolutely Natural & Food Safe, No Coating visible on stone, only impregnation Material, Upto 5 mm Penetrating power	Liters	1200.00
8861	Anti Stain Treatment with nano technology with Transparent matt or high shine protective coat formulated with pure silica, Flexible in Nature for Sealing stone Joints and Making Stones anti stain, Anti Slippery with Absolutely Natural Appearance, Avoids Stone Loosing and Giving Firm Grip to Stone Facades	Liters	700.00
8862	Dow coarning 789 Weather proofing silicon	cartage	270.00
8863	Silicon Structural adhesive	Mtr.	450.00
8864	Toughened Glass 6mm thick	Sqm	1800.00
8865	sundries Backup Rod, Masking tape, spacer tape etc.	L.S.	1.25
8866	Polycrete wall 125x125 (main member pillar)	Mtr.	710.00
8867	Polycrete wall 20x305 (Horizontal panel)	Mtr.	380.00
8868	Aluminum grill section of size 7.5mm x 6.0mm and opening of size 75mmx72mm	Sqm	715.00
8869	Aluminum grill section of size 7.5mm x 6.0mm and opening of size 50mmx48mm	Sqm	1050.00
8870	Solution Required for Dry Cleaning of sofa sets	Ltr.	900.00
8871	Vacume Cleaner Shampooing/Drycleaning Machine	Hr.	20.00
8872	Tapestry cloth of Sofa set	Mtr.	350.00
8873	100mm thick Joint less P.U. foam	sqm	1400.00
8874	50mm thick Joint less P.U. foam	sqm	700.00
8875	25mm thick Joint less P.U. foam	sqm	350.00
8876	Cost of jata / Dori	L.S	1.25
8877	Cost of Sofa Wooden Leg	Each	83.00
8878	Synthetic Carpet Carpet including 5% Wastage	P.Sqm.	350.00
8879	Chiken wire mesh	P.Sqm.	40.00

CODE	NAME OF MATERIALS	UNIT	RATE
8880	Premium Quality white glazed vitreous china W.C. orissa pan (IS:2556 Mark) Size 580x440 mm.	Each	2050.00
8881	Premium Quality white glazed vitreous china Universal (anglo-Indian type) WC Pan	Each	4990.00
8882	Premium Quality WVC Wall Hunged WC Pan	Each	11850.00
8883	Double Syphonic European W.C. with mounted W.V.C. flushing cisternand seat cover (complete set)	Each	16500.00
8884	premium qualaity WVC Urinal Flat Back (small) size 440x265x315 mm.	Each	2100.00
8885	premium qualaity WVC Urinal Flat Back (large) or half stall size 590x375x390 mm.	Each	7800.00
8886	premium qualaity W.V.C. Urinal Partition plate of size 630x315 mm	Each	2350.00
8887	premium qualaity WVC Wash basin Size 550 mm x 400 mm	Each	1750.00
8888	premium qualaity WVC Wash basin with C.I. brackets	Each	100.00
8889	premium qualaity WVC Wash basin Size 550 mm x 400 mm dia for counter top.	Each	3040.00
8890	Premium quality water closet Seat Cover Solid PVC (ISI marked) grade-I White for EWC.	Each	830.00
8891	Premium quality Low level Flushing Cistern of 10 litres capacity PVC with PVC bend as per IS : 7231	Each	1890.00
8892	Ornamental frame size 50x12 with 6mm Ply Board on Back Side	(3'+2')x2	78.00
8893	looking Mirror 5mm thick	(3'x2')	120.00
8894	Water Proof Ply	(3'x2')	40.00
8895	Hydraulic Seat Cover for Europeon WC	each	3850.00
8896	chair for wall hung W.C.	each	1400.00
8897	Fixing Concealed cistern with Floor mounting frame and flush plate	each	6500.00
8898	New spindle for Bib cock/pillar cock	each	80.00
8899	Toilet corner Glass Shelf size 225x225mm with C.P. brass brackets	each	1350.00
8900	premium quality waste coupling 32mm half thread	Each	1275.00
8901	Premium quality Bottle trap internal portion 32mm, size 250mm long	Each	1775.00
8902	Premium Towel rack 600mm long 260mm wide with lower hangers	Each	4000.00
8903	Premium quality Angular stop cock with wall flange	Each	1210.00
8904	Premium quality Two way Bib cock with wall flange	Each	2100.00
8905	PVC Tank Cover 300 Lt. capacity	Each	170.00
8906	PVC Tank Cover 500 Lt. capacity	Each	180.00
8907	PVC Tank Cover Above 500 Lt. capacity	Each	225.00
8908	C.I. Saddle pieces 100mm dia	Each	195.00
8909	Sluice valve 100mm dia	Each	4950.00
8910	DI Pipe (Ductile iron pipe) of 100 mm dia	Meter	850.00
9000	Mechanised Autoclaved flyash lime bricks 75	1,000 Nos	4500.00
9001	uPVC Casement Window Frame 60x60mm with EPDM & 1.2mm thk G.I Reinforcement (BR60DA)	Meter	420.00
9004	uPVC Casement Window Fix Mullion 76x60mm with EPDM & 1.2mm thk G.I Reinforcement (SE76NDA)	Meter	499.00
9005	uPVC Single Glazing Bead 34x20 with EPDM (GB34DA)	Meter	63.00
9022	Multipoint Transmission Gear (ESPAG) with white finish powder coated handle	Per. Pc.	635.00
9023	5mm Thick Float Glass (ISI make)	Sq. Mtr.	509.00
9050	Labour & Manufacturing Charges (Cutting, Drilling, Welding, Trimming, Cleaning, Glass & Hardware Fixing & Packing)	Sq. Mtr.	572.00
9051	uPVC Window & Door Site Installation Labour (Unloading, assembling & fixing, silicon applicaton & cleaning)	Sq. Mtr.	347.00
9052	Bectokill chemical	Ltr	1549.00
9053	UV tube	Each	7980.00
9054	6 mm thick tapered edge calcium silicate board/tile	sqm	300.00
9055	6 mm thick calcium silicate perforated tile/board	sqm	450.00
9056	8 mm thick calcium silicate perforated tile/board	sqm	575.00
9100	C.P. Brass flush Valve Economy model 25 mm.	each	1750.00
9101	C.P. Brass flush Valve Economy model 32 mm.	each	3600.00
9102	C.P. Pillar Cock 15 mm nominal size	each	870.00
9103	Vitreous china flat back wash basin Size 510 mm x 440 mm	each	997.00
9104	Vitreous china flat back wash basin Size 580 mm x 430 mm	each	1200.00
9105	Vitreous china flat back wash basin Size 610 mm x 510 mm	each	1926.00
9106	Vitreous china flat back wash basin Size 400 mm x 400 mm corner	each	901.00
9107	Vitreous china counter top wash basin Size 410 dia	each	1588.00

CODE	NAME OF MATERIALS	UNIT	RATE
9108	Vitreous china counter top wash basin Size 550 mm x 400 mm dia	each	1588.00
9109	Vitreous china counter top wash basin Size 630 mm x 500 mm dia	each	1690.00
9110	terrazzo (Mosaic) wash hand basin size 450 mm x 280 mm.	each	370.00
9111	terrazzo (Mosaic) wash hand basin size 550 mm x 400 mm.	each	420.00
9112	Bottle Trap C.P. Brass 32 mm	each	750.00
9113	Bottle Trap C.P. Brass 40 mm	each	860.00
9114	Bottle Trap Synthetic Material (PTMT) 32 mm.	each	500.00
9115	Bottle Trap Synthetic Material (PTMT) 40 mm.	each	600.00
9116	Bottle Trap PVC	each	260.00
9117	Grating Stainless Steel Sheet size 125mm dia.	each	70.00
9118	Grating Stainless Steel Sheet size 125mm dia. Heavy Quality	each	90.00
9119	Grating Synthetic Material(PTMT) of approved quality/make size 125mm dia	each	110.00
9120	Grating Synthetic Material(PTMT) of approved quality/make size 150mm dia	each	120.00
9121	Grating Square 150 x 150 x 8mm. (Anti Cockroach)	each	400.00
9122	Grating C.P. brass with frame (Heavy) & superior quality size 125mm dia.	each	300.00
9123	Grating C.P. brass with frame Light & superior quality size 125mm dia	each	90.00
9124	Grating Cast Iron.	each	200.00
9125	Liquid Soap Container C.P. brass	each	550.00
9126	Liquid Soap Container Synthetic Material	each	350.00
9127	Tooth Paste & Brush Holder C.P. brass	each	350.00
9128	Tooth Paste & Brush Holder C.P. brass (Heavy and Superior quality.)	each	500.00
9129	Tooth Paste & Brush Holder Stainless Steel	each	400.00
9130	Toilet Paper Holder with rod C.P. brass	each	400.00
9131	Toilet Paper Holder with rod C.P. brass heavy & Superior quality.	each	850.00
9132	Toilet Paper Holder with rod WVC (1stquality, ISI Marked) recessed size 150x150mm.	each	250.00
9133	Toilet Paper Holder with rod WVC (1stquality, ISI Marked) size 150x150mm .Exposed	each	220.00
9134	Soap Dish or Tray C.P. brass	each	315.00
9135	Soap Dish or Tray C.P. brass heavy and superior quality.	each	205.00
9136	Soap Dish or Tray WVC (1st Quality, ISI Marked) recessed size 150 x 150 mm.	each	230.00
9137	Soap Dish or Tray WVC (1st Quality, ISI Marked) recessed size 200 x100mm.	each	450.00
9138	Soap Tray WVC (1st Quality, ISI Marked) size 200 x100mm.	each	390.00
9139	Soap Dish WVC (1st Quality, ISI Marked) size 380mm.	each	450.00
9140	Twin- peg C.P. brass	each	89.00
9141	Twin- peg C.P. brass (heavy)Superior quality	each	190.00
9142	Twin- peg Acrylic	each	90.00
9151	Shower arm 15mm dia C.P.brass heavy & superior quality 150mm Projection.	each	230.00
9152	Shower arm 15mm dia C.P.brass heavy & superior quality 220mm Projection.	each	430.00
9153	Shower arm 15mm dia C.P.brass heavy & superior quality 300mm Projection.	each	375.00
9154	Shower arm 15mm dia C.P.brass heavy & superior quality 370mm Projection.	each	470.00
9155	Bath Shower C.P. brass fixed.	each	163.00
9156	Bath Shower C.P. brass of Heavy & superior quality 150mm.	each	450.00
9157	Bath Shower C.P. brass of Heavy & superior quality, revolving with adjustable key 150mm.	each	520.00
9158	Extension Pipe for bib cock C.P. brass of Heavy & Superior quality 50x15mm	each	125.00
9159	Extension Pipe for bib cock C.P. brass of Heavy & Superior quality 100x15mm	each	140.00
9160	Extension Pipe for bib cock C.P. brass of Heavy & Superior quality 150x15mm	each	230.00

CODE	NAME OF MATERIALS	UNIT	RATE
9161	Acrylic Toilet accessories set consisting of Towel rail, shelf, towel ring, soap dish, paste & brush holder & twin peg	each	2200.00
9162	Jet spray for water closet with C.P. Copper Tube flange	each	670.00
9163	C.P.flange for 15mm dia taps.	each	30.00
9164	C.P. Health Faucet with 1Mtr. Long Tube & Hook	each	900.00
9165	C.P. brass Urinal Spreader for Large Urinal of heavy duty	each	930.00
9166	P.V.C. Cistern fittings (Syphon, Ball cock & Handle Set)	Set	450.00
9996	Carriage & sundries	L.S.	1.25
9997	Water charge		1.00%
9998	Contractor profit & overhead		10.00%
9999	Sundries	L.S.	1.25

CHAPTER : G-4.1 : CARRIAGE OF MATERIALS

NOTE

- 1 Rates are for net quantities after deduction of voids
- 2 Part of Km beyond 1 Km. will be treated as under :
1.499 = 1.00 Km. ; 1.500 Km. = 2.00 Km
- 3 The rates are inclusive of loading and unloading
- 4 The rates are inclusive of stacking. If stacking is not required, no deduction is to be done.

Ch Code No.	Description	Unit	Rates										
			Up to 50 M	Add for each 50 M (upto 500 M)	For 500 M (0.5 Km.)	For 1 Km.	Add for each 1 Km beyond Ist Km (upto 5 Km.)	For 5 Km.	Add for each 1 Km beyond 5 Km (upto 10 Km.)	For 10 Km.	Add for each 1 Km beyond 10 Km (upto 20 Km.)	For 20 Km.	Add for each 1 Km beyond 20 Km
1	2	3	4	5	6	7	8	9	10	11	12	13	14
4.1	Earth, Sand, Lime, Morrum manure or sludge	Cum	23.00	4.00	59.00	80.00	9.00	125.00	8.00	165.00	8.00	240.00	7.00
4.2	Building Rubbish Stone metal (Grit and ballast etc.)	Cum	30.00	5.00	72.00	80.00	9.00	125.00	8.00	165.00	8.00	240.00	7.00
4.3	Stone for Masonry work & soling	Cum	44.00	5.00	90.00	105.00	7.00	132.00	7.00	164.00	6.00	221.00	5.00
4.4	Excavated rock	Cum	44.00	5.00	90.00	105.00	7.00	132.00	7.00	164.00	6.00	221.00	5.00
4.5	Bricks	1000 Nos	89.00	12.00	193.00	227.00	14.00	282.00	13.00	345.00	12.00	460.00	8.00
4.6	Brick Tiles	1000 Nos	36.00	7.00	98.00	115.00	13.00	167.00	13.00	230.00	12.00	345.00	7.00
4.7	Cement, Stone blocks pipes and other heavy materials	MT	25.00	4.00	56.00	66.00	8.00	98.00	8.00	138.00	7.00	207.00	4.00
4.8	Steel, Tar bitumen , Timber and steam coal	MT	23.00	3.00	50.00	59.00	13.00	110.00	13.00	173.00	12.00	288.00	5.00
4.9	Empty bitumen drums	10 Nos	38.00	3.00	65.00	77.00	5.00	95.00	4.00	115.00	4.00	150.00	2.00
4.10 Carriage with care Precast cement concrete blocks like Dand & kerbs etc weighing													
4.10.1	Upto 50 Kg.	Each	--	--	3.95	4.60	0.40	6.00	0.40	8.00	0.35	11.00	0.35
4.10.2	51 to 70 Kg.	Each	--	--	6.60	7.60	0.40	9.00	0.45	11.00	0.35	15.00	0.35
4.10.3	71 to 100 Kg.	Each	--	--	8.00	9.00	0.50	11.00	0.50	14.00	0.35	17.00	0.35
4.11 R.C.C. Hume Pipe with collar													
4.11.1	Dia 300 mm	Mtr.	--	--	24.00	28.00	0.70	31.00	0.60	33.00	0.35	37.00	0.35
4.11.2	Dia 600 mm	Mtr.	--	--	61.00	72.00	2.00	80.00	1.80	88.00	1.40	102.00	0.95
4.11.3	Dia 900 mm	Mtr.	--	--	127.00	154.00	550.00	176.00	4.80	198.00	3.50	231.00	3.00
4.11.4	Dia 1200mm	Mtr.	--	--	193.00	231.00	550.00	253.00	4.80	275.00	3.50	308.00	3.00

CHAPTER : G-4.2

Loading & Unloading

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

4.12	Loading in or unloading cement of the Railway wagons at siding and carrying the same from or into godowns adjacent to the siding, including stacking the same properly in rows upto any height as per direction of Engineer-in Charge, sweeping the wagons and screening the swept cement and filling in bags complete.	M.T.	35.00
4.13	Loading in or unloading from the Railway wagons and stacking as per the direction of Engineer-in-Charge		
4.13.1	Steel	M.T	44.00
4.13.2	G.I., C.I. R.C.C. or C.C. pipes upto 500mm dia and similar heavy materials.	M.T	35.00
4.13.3	Full bitumen drums	Each	12.00
4.13.4	Heavy materials where each piece or bundle, crate or case weight more than one tonne and R.C.C. C.I. and concrete pipes above 500 mm dia	M.T	45.00

Note :- The rates will be applicable in all cases whether material are unloaded on or loaded from railway siding or directly unloaded on or loaded from transport

No deduction shall be made from carriage rates for such direct unloading or loading

4.14	Extra for sorting the steel size-wise inside the store yard and stacking the same for measurement within the lead of 100 meters as directed by the Engineer-in-charge	M.T	24.00
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CHAPTER G-5

HIRE CHARGES OF TENT ARTICLES

NOTE : Hire charges includes transporatation at site within Municipal Limits, Loading, Unloading, Placing and removing complete.

Chapter Code No	Description	Unit	Rate (Rs.)		
			Cost (Rs.)	1st Day	Subsequent days(per Day)
1	2	3	4	5	6
5.1 Chairs :					
5.1.1	PVC chair	Each.	500.00	9.00	2.00
5.1.2	Plastic cane chair of Aluminium pipe with arms. Steel pipe pedded chair	Each. Each.	Deleted 1200.00	30.00	10.00
5.2 Tables :					
5.2.1	Wooden Table 6' x 3' (Babool).	Each.	800.00	25.00	7.00
5.2.2	Wooden Table 6' x 2' (Babool).	Each.	750.00	30.00	10.00
5.2.3	Centre Table sunmica Top 2'x4'	Each.	1800.00	50.00	15.00
5.2.4	Centre Table Glass Top 2'x4'	Each.	2250.00	150.00	50.00
5.2.5	Peg Table Sunmica Top 1'x1'	Each.	800.00	15.00	5.00
5.3 Floor Covering :					
5.3.1	Cotton Durry (Old).	Sqm.	18.00	2.00	0.60
5.3.2	Cotton Durry (New).	Sqm.	30.00	3.00	1.00
5.3.3	Non woven synthtic carpet (Red/Green) (New)	Sqm.	160.00	25.00	15.00
5.3.4	Non woven synthtic carpet (Red/Green) (old)	Sqm.	160.00	20.00	5.00
5.3.5	Woolen Carpet (New).	Sqm.	600.00	35.00	12.00
5.3.6	Woolen Carpet (old).	Sqm.	600.00	24.00	8.00
5.4	White Cotton chader (Sheet) (Washed)	Sqm.	40.00	20.00	2.00
5.5	Pipe Pandal with covering ht from to 12 to 18 ft	Sqm		30.00	10.00
5.6	Curtain cloth (View cutter) made out of steel pipe frame covering with good quality white cloth to cut view including making holes and made necessary strengthening support against wind pressure complete .	Sqm		25.00	7.00
5.7	Kanat fixed with Tent. (15'x6')	Each.	850.00	40.00	15.00
5.8	Kanat fixed without Tent. (15'x6')	Each.	850.00	50.00	10.00

Chapter Code No	Description	Unit	Rate (Rs.)		
			Cost (Rs.)	1st Day	Subsequent days(per Day)
1	2	3	4	5	6
5.9	5mm Galvanised Iron (G.I) pipe 6 mtr. long with new silk flag.	Each.		72.00	33.00
5.10	Water Proof Tripal.	Sqm.		10.00	4.00
5.11	Wooden stage height 60cm.with steps complete	Sqm.		48.00	12.00
5.12	Wooden stage height 120 to 180 cm.with steps made of 50 mm dia iron pipe frame with adjustable height system and having smooth top wooden board complete .	Sqm.		150.00	50.00
5.13	Cotton mattress with white sheet (chader).	Each		24.00	10.00
5.14	Dunlop mattress with white chadar size 6'x3'.	Each.		40.00	12.00
5.15	Massand with white cover.	Each.		14.00	5.00
5.16	Speech Stand having Sunmica top.	Each.	2850.00	150.00	60.00
5.17	white cotton cloth cover for padded chair inculding ribbon	Each.		10.00	4.00
Barricading					
5.18	Barricading with Sal ballies as per design including tying with vertical post by coconut strings including digging out holes in all types of soil complete in all respect with two horizontal members height 1.2 m upto 1.5m above ground level and vertical supports upto 2.5 centre and upto 3 days period including removal and cleaning the site complete in all respect & including dressing of sides and providing retro reflective tapes for traffic safety as per direction of Engineer-in charge in all types of soil.	Rmt		33.00	
5.19	Barricading with M.S. Pipe as per design including tying with vertical post including digging out holes in all types of soil complete in all respect with two horizontal members height 1.2 m upto 1.5m above ground level and vertical supports upto 2.5 centre and upto 3 days period including removal and cleaning the site complete in all respect & including dressing of sides and providing retro reflective tapes for traffic safety as per direction of Engineer-in charge in all types of soil.	Rmt.		28.00	

Chapter Code No	Description	Unit	Rate (Rs.)		
			Cost (Rs.)	1st Day	Subsequent days(per Day)
1	2	3	4	5	6
5.20	Add extra for item No. 5.18 & 5.19 in Rmt barricading for each subsequent day after 3 days	Rmt			3.00
5.21	Making of holes in cement concrete/ Bitumenous road by power driven hammer for barricating work as per direction of Engineer in charge	Each		185.00	-
5.22	Hire charges for folded type two seater sofa set (cum bed) with good quality white cloth cover	Each		240.00	80.00
5.23	VIP Chair with cushion	Each		100.00	40.00
5.24	Add extra for hire charge for providing welded mesh size 25x25 mm (16SWG) over barricating (excluding hire charge of barricating)	Sqm		30.00	6.00
5.25	Water Proof Tent with pipe pandal supported with Bamboo/Balli /MS Pipe frame.	Sqm		90.00	25.00
5.26	Water proofing canopy with ornamental frill, inner ceiling & curtains				
5.26 .1	Upto size 20'x20'	Sqm		175.00	40.00
5.26.2	Above size 20'x20'	Sqm		250.00	55.00
5.27	Deluxe sofa				
5.27.1	Three Seater	Each		700.00	200.00
5.27.2	Two Seater	Each		500.00	150.00
5.27.3	Single Seater	Each		300.00	100.00
5.28	Chemical toilet with house keeping arrangement and providing liquid soap, tissues, comb, freshener etc.	Each		6000.00	1200.00
5.29	Water proof dome with truss steel structure, inner ceiling & curtains				
5.29.1	60' span	Sqm		225.00	45.00
5.29.2	80' span	Sqm		250.00	50.00
5.29.3	90' span	Sqm		260.00	52.00
5.30	Aluminium German Hanger Tent Roof made up of Waterproof, Fire resistant Synthetic Rubber fabric of 885 GSM.	Sqm		400.00	80.00

Chapter Code No	Description	Unit	Rate (Rs.)		
			Cost (Rs.)	Rate (Rs.)	
			1st Day	Subsequent days(per Day)	
1	2	3	4	5	6

CHAPTER B-1 **EARTH WORK**

Note : The items in this Chapter will cover Earth Work for Building and Sanitary Work.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.1	Earth work in surface excavation not exceeding 30cm. in depth but exceeding 1.5 meter in width as well as 10 Sqm on plan including disposal of excavated earth up to 50 Mtr. and lift up to 1.5 Mtr. disposed soil to be levelled and neatly dressed : All kinds of soil	Sqm	35.00
1.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods watering, rolling each layer with 1/2 tonne roller, or stone or steel rammers and rolling every 3rd and top- most layer with power roller of minimum 8-10 tonne capacity and dressing up in embankment for roads, flood banks marginal banks and guide banks or filling up ground depressions, lead up to 50 Mtr. and lift up to 1.5 Mtr.: All kinds of soil	Cum	272.00
1.3	Banking excavated earth in layers not exceeding 20cm. in depth breaking clods watering, rolling each layer with 1/2 tonne roller, or stone or steel rammers, and rolling every 3rd and top- most layer with power roller of 8-10 tonne capacity and dressing up in embankments for roads, flood banks marginal banks, and guide banks etc. lead up to 50 Mtr. and lift up to 1.5 Mtr. All kinds of soils	Cum	171.00
1.4	Deduct for not rolling with power roller of 8 to 10 tonne capacity for banking excavated earth in layers not exceeding 20 cm in depth.	Cum	3.00
1.5	Deduct for not watering the excavated earth for banking.	Cum	12.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5 m , disposed earth to be levelled and neatly dressed : All kinds of soil	Cum	175.00
1.7	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m , disposed earth to be levelled and neatly dressed:		
1.7.1	Ordinary rock	Cum	251.00
1.7.2	Hard rock (requiring blasting) useful material 30%	Cum	410.00
1.7.3	Hard rock(blasting prohibited) useful material 30%	Cum	540.00
1.8	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead of 50 meter. All kinds of soils	Cum	178.00
1.9	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed with a lead in a 50 meter including stacking of useful material if available :		
1.9.1	Ordinary rock	Cum	268.00
1.9.2	Hard rock (requiring blasting) useful material 30%	Cum	444.00
1.9.3	Hard rock(blasting prohibited) useful material 30%	Cum	551.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.10	Excavating trenches of required width for pipe cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50 Mtr.: All kinds of soil		
1.10.1	Pipes cables etc. not exceeding 80mm dia	Mtr.	116.00
1.10.2	Pipes cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	Mtr.	187.00
1.10.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm dia.	Mtr.	294.00
1.11	Add extra for excavating trench for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 Mtr. but not exceeding 3 Mtr.	Mtr.	141.00%
1.12	Add extra for excavating trench for pipes, cables etc. in all kinds of soil for depth exceeding 3 Mtr. but not exceeding 4.5 Mtr.	Mtr.	361.00%
1.13	Excavating trenches of required width for pipes cables etc. including excavation for sockets, depth up to 1.5 Mtr. including taking out the excavated materials, refilling the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, with in a lead of 50 Mtr.		
1.13.1	ORDINARY ROCK		
1.13.1.1	Pipes cables etc. not exceeding 80mm dia	Mtr.	162.00
1.13.1.2	Pipes cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	Mtr.	399.00
1.13.1.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm dia.	Mtr.	458.00
1.13.2	HARD ROCK (REQUIRING BLASTING) USEFUL MATERIAL 30% OF VOLUME EXCAVATED		
1.13.2.1	Pipes cables etc. not exceeding 80mm dia	Mtr.	243.00
1.13.2.2	Pipes cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	Mtr.	604.00
1.13.2.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm dia.	Mtr.	696.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

1.13.3 HARD ROCK (BLASTING PROHIBITED) USEFUL**MATERIAL 30% OF VOLUME EXCAVATED**

1.13.3.1	Pipes cables etc. not exceeding 80mm dia	Mtr.	295.00
1.13.3.2	Pipes cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	Mtr.	730.00
1.13.3.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm dia.	Mtr.	843.00
1.14	Add extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	Mtr.	104%
1.15	Add extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	Mtr.	130.00%
1.16	P & F Close timbering in trenches including strutting, shoring and packing cavities (wherever required) etc. Complete (Measurement to be taken of the face area timbered):		
1.16.1	Depth not exceeding 1.5 Mtr.	Sqm	95.00
1.16.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	99.00
1.16.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	109.00
1.17	P & F Close timbering in case of shafts, wells, soak pits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc complete (Measurement to be taken of the face area timbered):		
1.17.1	Depth not exceeding 1.5 Mtr.	Sqm	99.00
1.17.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	107.00
1.17.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	118.00
1.18	P & F Close timbering over area including strutting, shoring and packing cavities (wherever required) etc. complete (Measurement to be taken of the face area timbered):		
1.18.1	Depth not exceeding 1.5 Mtr.	Sqm	84.00
1.18.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	89.00
1.18.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	96.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.19	Add extra for planking, strutting and packing material for cavities (in close timbering) if required to be left permanently in position (face area of timber permanently left to be measured)	Sqm	1254.00
1.20	P & F of Open timbering in trenches including strutting, shoring complete (measurements to be taken of the face area timbered)		
1.20.1	Depth not exceeding 1.5 Mtr.	Sqm	47.00
1.20.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	50.00
1.20.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	54.00
1.21	P & F of Open timbering in case of shafts, wells, soak pits, manholes and the like including strutting, shoring complete (Measurement to be taken of the face are timbered):		
1.21.1	Depth not exceeding 1.5 Mtr.	Sqm	41.00
1.21.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	46.00
1.21.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	53.00
1.22	P & F Open timbering over area including strutting, shoring etc complete (Measurement to be taken of the face are timbered):		
1.22.1	Depth not exceeding 1.5 Mtr.	Sqm	30.00
1.22.2	Depth exceeding 1.5 Mtr. but not exceeding 3 Mtr	Sqm	32.00
1.22.3	Depth exceeding 3 Mtr. but not exceeding 4.5 Mtr	Sqm	39.00
1.23	Add extra for planking and strutting in open timbering if required to be left permanently in position (face area of timber permanently left to be measured)	Sqm	629.00
1.24	Add extra rate for quantities of works, executed :		
1.24.1	In or under water and /or liquid mud, including pumping out water as required	P.Mtr. depth	20%
1.24.2	In or under foul position , including pumping out water as required	P.Mtr. depth	25%
Note :-	Note for item no. 1.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10m, 0.05m or more shall be taken as 0.10m and less than 0.05m ignorel.		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.25	Filling available excavated earth (excluding rock) in trenches, plinth side of foundation etc. in layers not exceeding 20 cm. in depth, consolidating each deposited layer by ramming and watering including lead up to 50 meter and with all lift.	Cum	64.00
1.26	Add extra for foundation/trenches/drains for every additional lift of 1.5 Mtr. or part thereof in		
1.26.1	All kinds of soil	Cum	34.00
1.26.2	Ordinary or hard rock.	Cum	61.00
1.27 (a)	Supplying and Filling in plinth with river sand under floors including watering ramming consolidating and dressing complete including cost of sand	Cum	1024.00
1.27 (b)	Supplying and Filling in plinth with blown sand under floors including watering ramming consolidating and dressing complete including cost of sand.	Cum	450.00
1.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish lead up to 50 Mtr. and lift up to 1.5 Mtr. : All kinds of soil	Sqm	9.00
1.29	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same : All kinds of soil	Sqm	9.00
1.30	Excavating holes upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift to 1.5 m		
1.30.1	All kinds of soil	Cum	94.00
1.30.2	Ordinary rock	Cum	135.00
1.30.3	Hard rock (requiring blasting) useful material 30%	Cum	243.00
1.30.4	Hard rock(blasting prohibited) useful material 30%	Cum	296.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	5.00
1.32	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	2.00
1.33	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.		
1.33.1	Beyond 30 cm girth upto including 60 cm girth	Each	140.00
1.33.2	Beyond 60 cm girth upto including 120 cm girth	Each	620.00
1.33.3	Beyond 120 cm girth upto including 240 cm girth	Each	2875.00
1.33.4	Above 240 cm girth	Each	5768.00
1.34	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/Lindane emulsifiable concentrate of 20%	litre	243.00
1.35	Diluting and injecting by hand operated pressure pumps chemical Emulsion timber ground treatment [TCGT] in ratio 1: 2 as per manufacturers specification for POST CONSTRUCTIONAL Anti-termite treatment (as per IS 6313) part - III 1971 as amended from time to time) (excluding the cost of chemical emulsion) :		
1.35.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	12.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.35.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	17.00
1.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor. With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	87.00
1.35.4	Treatment of existing masonry using chemical emulsion@ one litre per hole at 300mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2(1 cement : 2 coarse sand) to the full depth of the hole. With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	13.00
1.35.5	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same. With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	metre	124.00
1.36	Diluting and injection Chloropyrifos Emulsifiable concentrate 20% with 1% concentration for PRE-CONSTRUCTIONAL Anti termite treatment as per IS 6313 part III as amended from time to time and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor along the external perimeter of building expansion joints, over the top surface of consolidated earth of which aproach is to be laid surrounding of pipes and conduits etc. complete as per specification (Plinth floor area only shall be measured for payment and excluding the cost of chemical emulsion) .	sqm	47.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.37	<p>Drilling borehole and conducting standard penetration test from ground level and upto the depth given below or upto refusal whichever occurs earlier as per IS:2131-1981 and IS 2132-1986. The work also includes the determination of Safe Bearing capacity as per IS:6403-1981 and IS:8009-1976 from disturbed and undisturbed samples. The following properties should be also reported as per related IS codes .The whole work should be done as per direction given by Engineer and -in-charge and upto satisfaction of Engineer in Charge.</p> <ul style="list-style-type: none"> (i) Grain Size Analysis (ii) Atterberg's Limit (iii) Bulk Density (iv) Moisture Content (v) Specific Gravity (vi) Shear Parameters including Cohesion and Angle of Internal Friction <p>(a) Upto 6m depth</p> <p>(b) upto 10m depth</p>	Each	8635.00
		Each	11550.00
1.38	Anti-termite treatment of existing floor and wall using Imidacloprid 30.5% EC non repellent, odorless, low dose, environmentally safe Termiticide with rapid action non corrosive stain free, by injecting the emulsion as per specification and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) in the whole floor area. The pesticide emulsion of imidacloprid 30.5% EC mixed with water in the ratio of 1:474 will be pumped by a motorized spray pump specified manner. The net floor and wall area treated will be measured for payment.	Sqm	90.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.39	Anti termite treatment of floor using Imidacloprid 30.5% EC non repellent, odorless, low dose, environmentally safe termiticide with rapid action non corrosive stain free, by drilling 12mm diameter holes 300mm apart injecting the emulsion as per specification and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) in the whole floor area DPE 12mm dia termitube system with required number of junction boxes are to be installed. The termitube will run all along the perimeter wall both inside and outside. In the middle area the termitube to be installed at an interval of 1.00 Mtr. or less both ways as required with sufficient number of junction boxes to pump the emulsion. After successful testing of termitube, pesticide emulsion of imidacloprid 30.5% EC mixed with water in the ration of 1:474 will be pumped by a motorized spray pump from the junction box in specified manner. The plinth area of the area treated will be measured for payment.	Sqm	216.00

CHAPTER B-2

MORTAR

NOTE :

- 1 Complete rate for mortar is inclusive of cost of material, T & P & cost of water with all leads and lifts involved.
- 2 Compressive strength of mortars shall be as per the relevant specifications.
- 3 Cement mortar shall be prepared by mechanical mixer only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CEMENT SAND MORTAR :

2.1	Cement sand Mortar 1 : 2 (1 cement : 2 sand)	Cum	5015.00
2.2	Cement sand Mortar 1 : 3 (1 cement : 3 sand)	Cum	4145.00
2.3	Cement sand Mortar 1 : 4 (1cement : 4 sand)	Cum	3401.00
2.4	Cement sand Mortar 1 : 5 (1 cement : 5 sand)	Cum	3001.00
2.5	Cement sand Mortor 1 : 6 (1 cement : 6 sand)	Cum	2658.00
2.6	Cement sand Mortor 1 : 8 (1 cement : 8 sand)	Cum	2200.00
2.7	Cement sand Mortar 1:10 (1 cement :10 sand)	Cum	1953.00

CEMENT MARBLE POWDER MORTAR :

2.8	Cement marble powder mortar 1 : 2 (1-cement : 2-marble powder)	Cum	4936.00
2.9	Cement marble powder mortar 1 : 4 (1cement : 4-marble powder)	Cum	2912.00
2.10	White cement marble powder mortar 1 :2 (1 white cement : 2 marble powder)	Cum	12185.00
2.11	White cement marble powder mortar 1:3 (1 white cement : 3 marble powder)	Cum	9471.00
2.12	White cement marble powder mortar 1:4 (1 white cement : 4 marble powder)	Cum	6171.00

MUD MORTAR :

2.13	Mud Mortar including specified ingredients.	Cum	228.00
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CHAPTER B-3 **CONCRETE WORK**

NOTE :

- 1 The rates are for all lead of cement, ballast, sand, and grit etc. at site of work and are inclusive of laying and mixing, all T & P, mixer, vibrator with P.O.L, scaffolding etc. including cost of curing.
- 2 For all concrete work only coarse sand shall be used.
- 3 Concrete mix prepared by power-driven mechanical mixer shall be used.
- 4 Under exceptional conditions, where mechanical mixer and vibrator are not used (with the approval of Engineer-in-Charge) rates to be reduce by 15%, for mechanical mixer and 10 % for vibrator.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CEMENT CONCRETE (CAST-IN-SITU):

3.1	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level.	Cum	4915.00
3.1.1	M20 grade Nominal Mix 1: 1.5: 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	Cum	4624.00
3.1.2	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	4544.00
3.1.3	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	3847.00
3.1.4	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	3731.00
3.1.5	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cum	3302.00
3.1.6	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size).	Cum	2956.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

3.2	Providing and laying cement concrete including curing, compaction etc. complete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, levelling course etc up to floor five level excluding the cost of centering and shuttering.		
3.2.1	M20 grade Nominal Mix 1: 1.5: 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	Cum	5451.00
3.2.2	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	5112.00
3.2.3	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	5018.00
3.2.4	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Cum	4320.00
3.2.5	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	4204.00

CEMENT CONCRETE (PRE-CAST):

3.3	Providing and fixing up to floor five level pre cast cement concrete string or lacing courses, copings, bed plates, anchor blocks, windows sills, shelves, louvers steps, staircases, etc. including carriage, hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surface, including all T & P, curing etc. complete:		
3.3.1	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	6987.00
3.3.2	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Cum	6195.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 3.4 Add Extra for concrete work in superstructure above floor V level for each four floors or part thereof. Cum 408.00
- 3.5 Add Extra for laying concrete in or under water or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Per Cum 279.00 per Mtr. depth

Note : The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m; 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

- 3.6 Add Extra for laying concrete in or under foul positions. Cum 125.00

DAMP- PROOF COURSE AND PRECASTCOPING

- 3.7 Providing and laying damp-proof course with cement concrete grade M-150 (1 : 2 : 4) mortar prepared with 1% solution of water-proof compound complete as per specification . Sqm 391.00
- 3.7.1 50mm thick. Sqm 546.00
- 3.7.2 75mm thick. Sqm 367.00
- 3.8 Providing & fixing precast cement concrete coping 1 : 2 : 4 mix 50mm thick complete as per specification : Sqm 66.00
- 3.9 Cement, Concrete flooring/ cement plaster/ Cement Concret Road, Plain or RCC work & water retaining works providing and mixing Additive of Synthetic polypropylene Fibrillated mesh fibers free form any reprocess Olefins &comfirming to ASTM C 1116 Type III 4.1.3 Having grade 6mm/12mm /18mm melting point of 165 deg.C., strength>600 mpa Sp. Gravity:0.92g/cc, diameter 10-70 microns. It is required in specified ratio @ 0.25% (125 Gm. Fibers in 50 Kg. cement) for use. Mix it directly with contents in rotating site mixer direction of Engineer in charge with all leads and lifts. Per Pack 125 gm.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 3.10 Cement, Concrete Flooring/Cement Plaster/Cement Concrete Road, Plain or RCC work & water retaining works providing and mixing admixture of Synthetic Nylon-6 Fibres or polycaprolactam free from any reprocess Olefins & confirming to ASTM C 1116 Type III 4.1.3 Having grade 6mm / 12 mm /18 mm melting point 220 deg. C, Sp. Gravity:1.14 g/cc, diameter 10-40 microns. It is required in specific ratio @ 0.20% (100 gm Fibres in 50 Kg Cement) for use as specified by manufacture specification and direction of Engineer In-charges with all leads and lifts.

CHAPTER B-4 **REINFORCED CONCRETE WORK**

Note:

- 1 Rates for complete work laying, compaction, vibration, curing and all types of T & P, including P.O.L. etc and grinding and mixing of mortar.
- 2 The rates for centering and shuttering are for steel plates shuttering for complete work including centering, shuttering nails and other such items required. The shuttering shall be removed after required time as per instruction by Engineer-in-charge & IS 456:2000.
- 3 The Concrete for all grade shall be produced in conformation to the laid down procedures and all relevant clauses of IS 456 : 2000 **and further amendments.**
- 4 If any machinery like mechanical mixture machine, vibrator or mechanical mortar miller etc. is supplied by the Department, the hire charges as per department rate will be charged and transportation cost will be borne by the contractor.
- 5 No R.C.C. work shall be permitted without the use of mechanical mixer by hopper and vibrator.
- 6 Contractor at site shall arrange a stand by mechanical mixer and extra vibrator if more than 20 cum of RCC is to be done in a single day.
- 7 The rate for R.C.C. work is inclusive of cost of providing cement mortar covers Blocks. The rates for centering includes placement of cover blocks.
- 8 (a) For Design mix ,the producer / manufacturer / contractor shall obtain mix proportions of each grade of concrete from a recognized laboratory and submit detail to the Engineer-in-charge for approval. Concrete of any particular design mix and grade shall be produced / manufactured by weight batched hopper mechanical mixer with assigned capacity of mixing drum as directed by Engineer-in-charge.
- 8 (b) For Nominal mix concreting work,the coarse aggregates and fine aggregates will be measured by the standard boxes and cement by bag.The boxes should be designed for 1/2 bag,1 bag etc. of cement.

- 9 If any change required in the approved Job Mix design ingredient, Fresh Job Mix design shall be obtain by the contractor from approved lab and shall be got approved from Engineer-in-charge

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CAST-IN-SITU CONCRETE:

- 4.1 Providing and laying in position specified grade of cement concrete for all RCC structural elements upto plinth level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers(if required) excluding the cost of centering, shuttering and reinforcement.

M20 grade Nominal Mix / Design Mix

- 4.2 Providing and laying in position specified grade of cement concrete for RCC structural elements upto floor five level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers (if required) excluding the cost of centering, shuttering and reinforcement for Walls (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc.

M20 grade Nominal Mix / Design Mix

- 4.3 Providing and laying in position specified grade of cement concrete for RCC structural elements upto floor five level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers(if required) excluding the cost of centering, shuttering and reinforcement for Beams, suspended floors, roofs, griders having slopes up to 15°, landings, balconies, shelves, chajjas, lintels, bands, plain windows sills, staircases and spiral staircases etc.

M20 grade Nominal Mix / Design Mix

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 4.4 Providing and laying in position specified grade of cement concrete for RCC structural elements upto floor five level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers(if required) excluding the cost of centering, shuttering and reinforcement for Arches, arch ribs, domes, vaults, shells, folded plate, chimneys, shafts , roofs having slope more than 15° ,vertical and horizontal fins individually or forming box louvers, facias and eaves boards
M20 grade Nominal Mix / Design Mix
- 4.5 Providing and laying in position Ready mix concrete manufactured in fully automatic Batching Plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design of specified grade of RCC work including pumping of R.M.C. from transit mixer to site of laying , exclduing the cost of centering, shuttering and reinforcement with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge. **All works upto floor V floor M20 grade Design Mix by using cement as per codal provision.**
- 4.6 Add extra for providing richer mixes respectively at all floor levels
- 4.6.1 Providing M-25 grade concrete by using cement **as per codal provision** instead of M-20 grade design mix. Cum 69.00
- 4.6.2 Providing M-30 grade concrete by using cement **as per codal provision** instead of M-20 grade design mix. Cum 139.00
- 4.6.3 Providing M-35 grade concrete by using cement **as per codal provision** instead of M-20 grade design mix. Cum 194.00
- 4.6.4 Providing M- 40 grade concrete by using cement **as per codal provision** instead of M-20 grade design mix. Cum 242.00
- 4.7 Add extra for RCC work in superstructure above floor five level for each four floor or part thereof . Cum 112.00
- 4.8 Deduct for using less cement quantity than the quantity as provided in the item of design mix concrete/RMC as arrived as per mix design.(on cement quantity) Kg 7.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

FORM WORK

4.9	Centering and Shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundation , footings, strap beam, raft , bases of columns etc.	Sqm.	157.00
4.10	Centering & shuttering with plywood or steel sheets including strutting, propping bracing both ways with steel props and removal of formwork for upto floor five level for :		
4.10.1	Walls (any thickness) including attached pilasters, buttresses plinth and string course.	Sqm	289.00
4.10.2	Suspended floors, roofs, landings, staircases, balconies, girders, cantilevers, bands, coping bed plates, anchor blocks, sills, chhajjas, lintel, beam, plinth beam etc.	Sqm	340.00
4.10.3	Columns, pillars, posts and struts etc.	Sqm.	375.00
4.10.4	Spiral staircases, chimneys shafts etc.	Sqm.	301.00
4.10.5	Arches, domes, vaults etc. up to 6 Mtr span.	Sqm.	879.00
4.10.6	Arches, domes, vaults etc exceeding 6 Mtr span	Sqm.	329.00
4.10.7	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards.	Sqm.	494.00
4.10.8	Add extra for shuttering in circular work (in respective centering and shuttering items)	Sqm	20%
4.10.9	Cornices and mouldings	Sqm	474.00
4.10.10	Grid roofing with panel area less than 2.25 Sqm. (contact area to be measured).	Sqm	405.00
4.10.11	Deduct for using wooden vertical member instead of steel props Note : The uses of wooden member is allowed in works which A & F sanction up to 25 lacs only.	Sqm	20%
4.11	Add extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area is to be measured)	Sqm	171.00
4.12	Add extra for centering and shuttering work in superstructure above floor five level for each four floor or part thereof .	Sqm.	34.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

STEEL REINFORCEMENT:

- 4.13 Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level.
('Original producers' who manufacture billet directly from iron ores and roll the billets to produce steel conforming to IS:1786)
- 4.13.1 Cold twisted deformed bars (IS : 1786). Kg. 77.00
4.13.2 Hot rolled deformed bars (IS : 1139). Kg. 77.00
4.13.3 Thermo-mechanically Treated bars (Conforming of relevant IS code) Kg. 77.00
- 4.14 Labour charges for cutting, bending for fabrication and binding reinforcement (plain or tor/ribbed/TMT steel) as per drawing and design for R.C.C. and R.B. work including cost of binding wire with all lead and lift up to floor five level complete. Kg. 12.00
- 4.15 Add extra for reinforcement in superstructure above floor five level for each four floor or part thereof . Kg 3.00

PRECAST CEMENT CONCRETE

- 4.16 Providing and fixing of 200mm thick RCC precast panel made of M35 grade concrete with required steel, rebar chair, wire mesh, connection bolt, fastener and beveled washer with **erection** ready complete in all respect with all lead. Sqm 4076.00
- 4.17 Providing and fixing of 150 mm thick RCC precast panel made of M35 grade concrete with required steel, rebar chair, wire mesh, connection bolt, fastener and beveled washer with **erection** ready complete in all respect with all lead. Sqm 3847.00
- 4.18 Providing, hoisting and fixing up to floor five level precast reinforced concrete work in Nominal M20 grade mix including cost of required centering, shuttering, finishing, smooth with 6 mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surface complete excluding cost of reinforcement
- 4.18.1 String courses, copings, bed plates, anchor blocks, plain window sills etc Cum 7030.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

4.18.2	Small lintels not exceeding 1.5 m clear span	Cum	9163.00
4.18.3	Mouldings as in cornices, windows sills etc.	Cum	10262.00
4.18.4	Lintels beams and bressumers including setting in cement mortar 1:3 (1 cement: 3 coarse sand) aggregate 20mm nominal size).	Cum	8636.00
4.18.5	Beams, Columns, slabs, Shelves, Vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement: 2 sand) or grouts as per requirements	Cum	13036.00
4.19	Providing, hoisting and fixing up to floor five level precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia Mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1 : 3 (1 cement : 3 fine sand) etc complete as per approved design excluding plastering of jambs, sills and soffits		
4.19.1	50mm thick	Sqm	630.00
4.19.2	40 mm thick	Sqm.	534.00
4.19.3	30mm thick	Sqm.	492.00
4.20	Add extra over for both side jali	Sqm.	20%

ENCASING ROLLED STEEL SECTION

4.21	Encasing rolled steel section in beams and columns, with M20 Nominal Mix cement concrete including centering and shuttering complete but excluding cost of reinforcement.	Cum	8460.00
4.22	Encasing rolled steel section in grillages with M20 Nominal Mix including centering and shuttering complete but excluding cost of expanded metal and hangers.	Cum	5607.00
4.23	Add Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3.25mm wide 1.6mm thick weighing 3.64 kg. per sqm. for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.	Sqm.	381.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

4.24 Providing arranging and erecting 50mm dia M.S. pipe cup lock shuttering arrangement above the ground level upto the height given below. The girding arrangement of cup lock system should have 2.50 meter 3.00 meter long coupling pipes and 0.90mt long lacer pipe (Horizontal bracing pipes) reconnected in both ways so as to make a square grid of size 0.90x0.90 meter in plan. The Horizontal bracing and lacer pipes should have a maximum spacing of 1.50 meter c/c both ways. The bottom of the coupling pipe must rest over a firm support at ground. the shuttering plates of 900mmx600mm size duly braced by angle supports and should rest over 50mmx50mm size wooden logs supported by 75x40x6mm size channels and

U-Jacks made of M.S.25mm dia steel bars with adjustable thread and lock arrangement placed at a spacing of 0.60 meter c/c. The whole arrangement should be duly shored from ground by U-Jacks and lacer pipes to prevent any lateral movement during casting of slabs. Additional support as per direction of engineer in charge are also to be provided wherever felt necessary. The work would include transportation of material erecting the whole grid structure, bracing both way, shoring, leveling of shuttering and removal of form work complete as per direction of Engineer in charge for all the floors upto the height of:-

- | | | |
|----------------------------|------|---------|
| (a) Upto 6.63 meter height | Sqm. | 958.00 |
| (b) Upto 9.14 meter height | Sqm. | 1722.00 |

4.25 Rebarring work in old R.C.C structures including making bore hole to adjust required bar diameter and filling a good quality filler to provide a tensil strength as per requirement and fix the Bar to the saction including cost of bars.

- | | | |
|-----------------|------|---------|
| (i) 8 mm bar | Each | 429.00 |
| (ii) 10 mm bar | Each | 468.00 |
| (iii) 12 mm bar | Each | 528.00 |
| (iv) 16 mm bar | Each | 831.00 |
| (v) 20 mm bar | Each | 1078.00 |
| (vi) 25 mm bar | Each | 1559.00 |

CHAPTER B-5

BRICK WORK

Note :

- 1 Fly ash bricks shall be invariably be used in building works except petty or repair works, where clay bricks can be used.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

5.1	Brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth with bricks		
5.1.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum.	4469.00
5.1.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum.	4263.00
5.1.3	Mud mortar	Cum.	3265.00
5.2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :		
5.2.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum.	5196.00
5.2.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum.	4990.00
5.2.3	Mud mortar	Cum.	3792.00
5.3	Add extra for Square or Rectangular Pillars in Superstructre brick work up to five storey		
5.3.1	Upto 45 cm length and all sides are free	Cum	327.00
5.3.2	Upto 45 cm length and two corners are free	Cum	163.00
5.3.3	Upto 90 cm length and all sides are free	Cum	278.00
5.3.4	Circular Pillars	Cum.	331.00
5.4	Brick work in plain arches in super structure upto five storey in cement mortar 1 : 3 including centering and shuttering complete span upto 6 Mtr. with Brick of class designation 75.	Cum.	6762.00
5.5	Brick work in gauged arches in super structure upto five storey in cement mortar 1 : 3 including centering and shuttering complete span upto 6 meter with Brick of class designation 75.	Cum.	8015.00
5.6	Add extra for additional cost of centering for arches exceeding 6m span including all shuttering , bolting wedging and removal.(Area of the soffit to be measured)	Cum	314.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
5.7	Half brick masonry in foundation & plinth using bricks of designation 75		
5.7.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Sqm.	525.00
5.7.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm.	497.00
5.7.3	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Sqm.	470.00
5.8	Half brick masonry in Superstructure , above plinth level upto floor V level using bricks of designation 75		
5.8.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Sqm.	583.00
5.8.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm.	553.00
5.8.3	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Sqm.	526.00
5.9	Add extra providing and placing in position 2 Nos. ,6mm Ø M.S. bar at every third course of half brick masonry .	Sqm	64.00
5.10	Brick work in partition in super structure upto five storey 7cm. thick (brick on edges) using bricks of class designation 75 in :		
5.10.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Sqm.	396.00
5.10.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm.	377.00
5.11	Honey comb brick work half brick thick with bricks of class designation 75 upto five storey in:		
5.11.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm.	360.00
5.11.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Sqm.	342.00
5.12	Add extra over for laying brick work in or under water and or liquid mud including cost of pumping of or bailing out water and removal of slush etc. complete.	P.Cum. P.- Mtr. depth	293.00
<i>Note :</i>	The quantity will be calculated by multiplying the depth measured from the sub-soil water level up to centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m; 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.		
5.13	Add extra for laying bricks work in or under foul condition.	Cum.	119.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
5.14	Brick work in super structure upto five storey with selected bricks of class designation 75 in exposed brick work including making horizontal and vertical grooves 10mm. wide 12mm. deep complete in cement mortar 1:6.	Cum	5055.00
5.15	Brick work with clay flyash F.P.S. brick (IS 13757- 1993) of class designation 75 in superstructure above plinth level upto floor five level in :		
5.15.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum	5038.00
5.15.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum	4832.00
5.16	Brick work with mechanised autoclaved flyash lime bricks conforming to IS: 12894 :2002 of class designation 100 in superstructure above plinth level upto floor V level in.		
5.16.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum	4912.00
5.16.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum	4645.00
5.17	Add extra for brick work in superstructure above floor five level, for each four floors or part thereof.		
5.17.1	Quantity in Cum.	Cum.	260.00
5.17.2	Quantity in Sqm.	Sqm.	23.00
5.18	Add extra over item of brick work with class designation 100 in substitution of class designation 75 :		
5.18.1	Quantity in Cum.	Cum.	163.00
5.18.2	Quantity in Sqm.	Sqm.	19.00
5.19	Half Brick work with mechanised autoclaved flyash lime bricks conforming to IS: 12894 :2002 of class designation 100 in superstructure above plinth level upto floor V level in.		
5.19.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	586.00
5.19.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Sqm	557.00
5.20	Half Brick work with mechanised autoclaved flyash lime bricks conforming to IS: 12894 :2002 of class designation 75 in superstructure above plinth level upto floor V level in.		
5.20.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	564.00
5.20.2	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Sqm	536.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
5.21.1	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry 100mm/125mm thick with Grade-I AAC blocks of density 551 to 650 kg/cum conforming to IS : 2185 (Part-3) in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos. 6 mm dia MS bars at every third course of masonry work.	Cum.	5404.00
5.21.2	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry 150mm/230mm/300mm thick with Grade-I AAC blocks in superstructure above plinth level upto floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-charge. (The payment of RCC band and reinforcement shall be made for separately).	Cum.	4752.00
5.21.3	Add extra for AAC block masonry work in superstructure above floor five level, for each four floors or part thereof.	Cum.	260.00

CHAPTER B-6

STONE MASONRY

Note :

- 1 Rates provided are for the complete finished items inclusive of cost of water and materials with all leads labour, all type of taxes, royalty, scaffolding, curing, laying, fixing finishing etc., hire charges for tools and plants, templates and other appliances, required for the purpose of execution of the items work as per specification.
- 2 In case of non-availability of stone header of proper size cement concrete header of mix 1:3 : 6 (M-100) with 25mm graded stone aggregate with smooth finish may be provided by the contractor at no extra cost.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.1	Random Rubble stone masonry for with hard stone in foundation and plinth in Cement Sand mortar above 30 CM thick wall in:		
6.1.1	Mud Mortar.	Cum.	1850.00
6.1.2	Dry Masonry.	Cum.	1744.00
6.1.3	Cement Mortar 1:3 (1-Cement : 3-Sand).	Cum.	3528.00
6.1.4	Cement Mortar 1:4 (1-Cement : 4-Sand).	Cum.	3182.00
6.1.5	Cement Mortar 1:5 (1-Cement : 5-Sand).	Cum.	2998.00
6.1.6	Cement Mortar 1:6 (1-Cement : 6-Sand).	Cum.	2838.00
6.2	Random Rubble stone masonry with hard stone in superstructure above plinth level and upto five level above 30cm. thick walls in :		
6.2.1	Mud Mortar.	Cum.	2490.00
6.2.2	Dry Masonry.	Cum.	2385.00
6.2.3	Cement Mortar 1:3 (1-Cement : 3-Sand).	Cum.	4169.00
6.2.4	Cement Mortar 1:4 (1-Cement : 4-Sand).	Cum.	3824.00
6.2.5	Cement Mortar 1:5 (1-Cement : 5-Sand).	Cum.	3639.00
6.2.6	Cement Mortar 1:6 (1-Cement : 6-Sand).	Cum.	3479.00
6.3	Add extra for Random Rubble stone masonry with hard stone in		
6.3.1	Square or Rectangular pillars	Cum.	173.00
6.3.2	Circular pillars	Cum.	519.00
6.3.3	Wall curved in plan to mean radius not exceeding 6 Mtr.	Cum	319.00
6.3.4	Wall upto 30cm. and less thickness.	Cum	186.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.4	Add extra for facing as per design and detailed specifications including additional cost of stones		
6.4.1	Course rubble facing First sort.	Sqm	618.00
6.4.2	Course rubble facing Second sort.	Sqm	491.00
6.4.3	Ashlar fine tooled facing.	Sqm	666.00
6.4.4	Ashlar rough tooled facing.	Sqm.	381.00
6.4.5	Ashlar pitched facing.	Sqm.	336.00
6.4.6	Add extra for rock facing using Jodhpur white sand stone with proper projection and chisel dressing of edges of stone 2 line dressing for building corners,jambs including uniform joints.	Sqm.	290.00
6.5	Extra for stone masory work,above floor V level for every four floors or part thereof.	Cum	545.00
6.6	Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	Cum/ P Mt depth	307.00
6.7	Extra for laying stone work in or under foul position.	Cum	124.00
Note :-	Recover cost of useful stone @ 2/3 rd of masonry work dismantaled quantity.	Cum	575.00
6.8	Stone work (machine cut edges) for Wall cladding/ Veneering work up to 10m height with 20 to 30 mm thick Red Sand Stone (Karauli) and backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :(To be secured to the backing by means of cramps which shall be paid separately)		
6.8.1	Exposed face rough dressed	Sqm.	1814.00
6.8.2	Exposed face machine cut	Sqm.	2500.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.9	Stone work (machine cut edges) for Wall cladding/ Veneering work up to 10 m height with 20 to 30 mm thick Pink Sand stone (Bansi Paharpur) and backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing by means of cramps which shall be paid separately)		
6.9.1	Exposed face rough dressed	Sqm.	1851.00
6.9.2	Exposed face Machine cut	Sqm.	2536.00
6.10	Wall lining butch work upto 10m height with Red/ Pink Sand stone 20 to 30 mm thick (machine cut edges) stone strips of minimum length 300 mm and required width including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1 : 3 (1 cement : 3 Coarse sand) i/c ruled pointing in cement mortar 1 :2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer in Charge.		
6.10.1	Exposed face rough dressed	Sqm.	1353.00
6.10.2	Exposed face machine cut	Sqm.	1455.00
6.11	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.	Kg	707.00
6.12	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.	Each	26.00
6.13	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.	Each	26.00
6.14	Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.	Sqm.	64.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.15	Providing and fixing horizontal chajja of Red/ White sand stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.	Sqm.	883.00
6.16	Providing dab stone over Chajjas duly fixed in cement sand mortar 1:6 complete :		
6.16.1	80mm thick.	Sqm.	921.00
6.16.2	50mm thick.	Sqm.	825.00
6.17	Supplying and fixing in walls machine cut and polished stone shelves, tands and in CM 1:3 with machine cut edges :		
6.17.1	Sand or other approved stone 25mm thick.	Sqm.	504.00
6.17.2	Sand or other approved stone 50mm thick.	Sqm.	673.00
6.17.3	Kota stone minimum 30mm thick.	Sqm.	609.00
6.18	Supplying and fixing stone lintels/bed plates of approved quarry rough dressed in cement mortar 1:4 :		
6.18.1	Upto 15 cm. thick.	Cum	9621.00
6.18.2	Above 15 cm. thick.	Cum	9162.00
6.19	Supplying and fixing machine cut fine dressed Red/Pink sand stone dasa or coping, with full moulding if required laid on cement mortar 1:4 including pointing with admixture of pigment matching with the stone shade.		
6.19.1	25 mm thick	Sqm.	1243.00
6.19.2	50 mm thick	Sqm.	1458.00
6.19.3	75 mm thick	Sqm.	1664.00
6.20	Supplying and fixing machine cut dressed 75 mm Pink sand stone (Bansi Paharpur) dasa/ coping wth ornamental shape having moulding and "PAN Shape" engraving as per required pattern with engraving depth of 5 mm (average) in single piece of length 90 cm to be laid on cement mortar 1:4 (12 to 20mm thick) including pointing with admixture of pigment matching with the stone shade.	Sqm.	5309.00
6.21	Providing and fixing Stone jali 40mm thick Red/Pink sand stone throughout in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali patterns to be cut square to jali slab without any chamfers etc:	Sqm.	7851.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.22	Providing and fixing Stone jali 50mm thick Red/Pink sand stone as per ornamental design to fixed with white cement/epoxy mortar including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade.	Sqm.	8813.00
6.23	Providing and fixing Red/Pink sand stone post (Mataga) having size 100x100mm heights 600 to 750 mm as per ornamental design such as like flower octonogal head border etc. to fixed with white cement/epoxy mortar including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade.	Each	800.00
6.24	Providing and fixing ornamental/aesthetic look cement concrete claddings/ veneers up to 100 mm with, over a base of cement Plaster 1:4, 20 mm thick including cement pointing 1:2 with an admixture of pigment to match the shades of veneer upto 4:5 mtr. Height above plinth level.	Sqm	982.00
ARCH MASONRY			
6.25	Stone masonry for arches in cement sand mortar 1:3 including centering shuttering and pointing etc. up to 4.5 Mtr. height from plinth level:		
6.25.1	With hammer dressed stone (to be plastered).	Cum	8114.00
6.25.2	With coursed rubble stone (to be pointed).	Cum	9060.00
6.25.3	Block-in-Course chisel dressed, arch span up to 1.5 Mtr.	Cum	11963.00
6.25.4	Block-in-Course chisel dressed, arch span above 1.5 Mtr.	Cum	12528.00
6.25.5	Cut stone fine dressed with fine joints, arch span up to 1.5 Mtr.	Cum	14819.00
6.25.6	Cut stone fine dressed with fine joints, arch span above 1.5 Mtr.	Cum	13815.00
6.25.7	Relieving arch stone masonry.	Cum	6000.00
6.25.8	Extra over item No. 6.25 for dome masonry. Shuttering and Form work if required to be paid separately.	Cum	1966.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
ASHLAR-STONE WORK			
6.26	Supplying and fixing ashlar sills, jambs, skirting, steps etc. rough dressed:		
6.26.1	(A) Upto 15 cm thick Soorsagar or eqvt. White Ashlar	Cum	25952.00
	(B) Upto 15 cm thick Red Ashlar	Cum	17161.00
6.26.2	Above 15 cm. and upto 20 cm. thick (A) Red Ashlar (B) Soorsagar or eqvt. White Ashlar	Cum Cum	17291.00 26082.00
6.26.3	Above 20 cm. thick & upto 2.15 m length (Pats.) (A) Red Ashlar (B) Soorsagar or eqvt. White Ashlar	Cum Cum	17421.00 26245.00
6.26.4	Above 20 cm. thick & above 2.15 m. length (A) Red Ashlar (B) Soorsagar or eqvt. White Ashlar	Cum Cum	17454.00 26245.00
6.27	Supplying and fixing Soorsagar Bhura or Equivalent ashlar sills, lintels and dassa, bearing, bed & top surface made perfencly even, jambs, skirting steps etc. rough dressed:		
6.27.1	Upto 15 cm. thick	Cum	5019.00
6.27.2	Above 15 cm. and upto 20 cm. thick	Cum	5149.00
6.27.3	Above 20 cm. thick (pats) & upto 2.15 m length	Cum	5312.00
6.27.4	Above 20 cm. thick (pats) & above 2.15 m length	Cum	5507.00
6.28	Supply and fixing ashlar lintels and Dassa exposed horizontal and vertical faces 3 - lines fine dressed (bearing bed & top surface made perfectly even)		
6.28.1	(a) upto 15 cm thick Red Ashlar (b) upto 15 cm thick White Ashlar	Cum Cum	18369.00 26722.00
6.28.2	Above 15 cm. and upto 20 cm. thick (a) Soorsagar or eqvt. White Ashlar (b) Red Ashlar	Cum Cum	26992.00 18579.00
6.28.3	Above 20 cm. thick & upto 2.15 m length (Pats.) (a) Soorsagar or eqvt. White Ashlar (b) Red Ashlar	Cum Cum	27062.00 18649.00
6.28.4	Above 20 cm. thick & above 2.15 m length (a) Soorsagar or eqvt. White Ashlar (b) Red Ashlar	Cum Cum	27272.00 18859.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.29	Supplying and fixing ashlar solid block pillars fully fine (3 lines) dressed (a) Soorsagar or eqvt. White Ashlar (b) Red Stone	Cum Cum	38844.00 27662.00
6.30	Supplying and fixing ashlar stone arches fuly fine (3 lines) dressed for 1.5 to 5m. Span (Net content payable) (a) Soorsagar or eqvt. White Ashlar (b) Red Stone Ashlar	Cum Cum	34203.00 23112.00
6.31	Supplying and fixing ashlar face stone 10 cm thick fine (3 lines) dressed (b) Red Ashlar	Sqm	5006.00
6.32	Supplying and fixing ashlar coping ordinary 7 to 10 cm. thick 2-line dressed (normal length of single piece not less than 0.90m) (a) Soorsagar or eqvt. White Ashlar (b) Red Ashlar	Sqm Sqm	8348.00 4741.00
6.33	Supplying and fixing ashlar coping moulded and counter slopped 7 to 10 cm. thick (2 line dressed) (normal length of single piece not less than 0.90m) (a) Soorsagar or eqvt. White Ashlar (b) Red Ashlar	Sqm Sqm	9028.00 5421.00
6.34	Supplying and fixing in cement sand mortar 1:4 sand or other approved stone dassa or coping of thickness 75 to 100 mm (fine dressed) : Plain ornamental/Jhalar coping (face area measured)	P. Cum	11004.00
6.35	Supplying and fixing ashlar shrivan (Kharpa grooved) rough dressed (normal length of single piece not less than 0.90m)	Cum	16279.00
6.36	Fine dressing of ashlar stone work (payable on Executive Engineer's test checking):		
6.36.1	(A) White Ashlar three line (B) Red Ashlar three line	Sqm Sqm	1952.00 929.00
6.36.2	(A) White Ashlar two line (B) Red Ashlar two line	Sqm Sqm	1215.00 739.00
6.36.3	(A) White Ashlar one line (B) Red Ashlar one line	Sqm Sqm	988.00 441.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.37	Rough dressing ashlar stone work (payable only for departmental work).		
	(A) Soorsagar or eqvt. White Ashlar	Sqm	226.00
	(B) Red Ashlar	Sqm	154.00
6.38	Supplying and fixing ashlar cantilever steps fine (3 lines) dressed (triangular exposed surface is to be measured)		
	(A) Soorsagar or eqvt. White Ashlar	Cum	100886.00
	(B) Red Ashlar	Cum	93386.00
6.39	Supplying and fixing ashlar cantilever steps fine (2 lines) dressed (triangular exposed surface is to be measured)		
	(A) Soorsagar or eqvt. White Ashlar	Cum	98886.00
	(B) Red Ashlar	Cum	91386.00
6.40	Deduct if the shape of cantilever and landing steps is rectangular		
6.40.1	Form item No. 6.37		
	(A) Soorsagar or eqvt. White Ashlar	Cum	50443.00
	(B) Red Ashlar	Cum	46693.00
6.40.2	Form item No. 6.38		
	(A) Soorsagar or eqvt. White Ashlar	Cum	49443.00
	(B) Red Ashlar	Cum	45693.00
6.41	Supplying and fixing ashlar rain water spouts fine (3 lines) dressed as per approved design of size :		
6.41.1	(A) Red Ashlar 60x26x18 cm	Each	571.00
	(B) White Ashlar 60x26x18 cm	Each	1135.00
6.41.2	(A) White Ashlar 60x30x25 cm	Each	1457.00
	(B) Red Ashlar 60x30x25 cm	Each	744.00
6.42	Supplying and fixing ashlar stone chhajja 5 to 7 cm. thick all exposed surface fully fine dressed, weather dripped includin 75x75mm. Cement batta (1:2:4) between chhajja & wall (single piece upto 1:2m length) :		
6.42.1	(A) Red Ashlar three line dressed	Sqm	1247.00
	(B) White Ashlar three line dressed	Sqm	1707.00
6.42.2	(A) Red Ashlar two line dressed	Sqm	1057.00
	(B) White Ashlar two line dressed	Sqm	970.00
6.42.3	(A) Red Ashlar one line dressed	Sqm	759.00
	(B) White Ashlar one line dressed	Sqm	743.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.43	Supplying and fixing Red ashlar railing ordinary with takia and thambli complete fine dressed		
6.43.1	Red Ashlar three line dressed	Sqm	1296.00
6.43.2	Red Ashlar two line dressed	Sqm	1106.00
6.43.3	Red Ashlar one line dressed	Sqm	808.00
6.44	Supplying and fixing Red ashlar stone Jali 5 to 7 cm. thick curved		
6.44.1	Red Ashlar upto half depth	Sqm	1839.00
6.44.2	Red Ashlar upto full depth	Sqm	2313.00
6.45	Re-fixing old ashlar stone w/o dressing		
	(A) White Ashlar	Cum	427.00
	(B) Red Ashlar	Cum	340.00
6.46	Re-fixing of old stone slab		
	(A) White Ashlar	Sqm	126.00
	(B) Red Ashlar	Sqm	108.00
6.47	Supply & fixing Red Ashlar shelves 5 to 7 cm. thick exposed surface rough dressed	Sqm	284.00
6.48	Supply and fixing Red Ashlar shelves 5 to 7 cm. thick exposed surface fine (3 lines) dressed	Sqm	778.00
6.49	Red ashlar todies for verandah (pillar and pat) fine (3 lines dressed)	Sqm	1449.00
6.50	Supply and fixing Red Ashlar todies for chhajjas and shelves fine (3 lines) dressed 30x30x10cm.	Sqm	855.00
6.51	Supply and fixing chittar or equivalent stone slab perchits with making edges and top surface level in cement mortar 1:3 complete finished		
6.51.1	Upto 2.15m span Soorsagar or eqvt. White Ashlar	Sqm	674.00
6.51.2	Add extra for span more than 2.15m span Soorsagar or eqvt. White Ashlar	Sqm	55.00
6.52	Supply and fixing 7 to 10 cm. Soorsagar or equivalent stone chaps in lime mortar or gypsum rough dressed more than 0.60 m. length	Sqm	344.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.53	Supply and fixing 2.5 to 5 cm thick Darba Darbi wall of red (Ros) stone rough dressed fixed in lime mortar or gypsum	Sqm	430.00
6.54	Supply and fixing soorsagar or equivalent white stone slab steps 75 to 100 mm thick fine (3 lines) dressed for tread & riser upto 2m. Length, simply supported or centrally fixed with both ends free (projection to be paid only)	Sqm	3439.00
6.55	Deduct if soorsagar or equivalent Bhura Ashlar stone is used in place of white ashlar. Ornamental work (as per existing pattern of Umed Hospital, M.G. Hospital or Rajasthan High Court Building at Jodhpur)	Sqm	421.00
6.56	Supplying and fixing soorsagar or equivalent 35 cm. height ashlar face (3 line) fine dressin with 3.5 cm. gola/groove complete including cutting and moulding (excluding supply of Ashlar and fixing).	Mtr.	732.00
6.57	Supplying and fixing 13 cm thick soorsagar face stone over vent lintel complete including cutting & moulding (3 line fine dressed)	Mtr.	1435.00
6.58	Supplying and fixing 7 to 8 cm thick soorsagar stone chajja in slope (3 lines fine dressed)including cutting & moulding weather dripped (both sides dressed)	Sqm	3994.00
6.59	Supplying and fixing 7 to 8 cm thick soorsagar stone chajja outer and inner corner complete 3 lines fine dressed including cutting & moulding weather dripped (both sides dressed) (A) For white Ashlar stone outer corner (B) For white Ashlar stone Inner corner	Each	1686.00
6.60	Supplying and fixing 17 cm thick soorsagar dab stone (face 3 line dressed) including cutting and moulding	Mtr.	1832.00
6.61	Supplying and fixing Flat rain water spouts 25 Cm. Wide in Soorsagar stone clopped chhajja including cutting & moulding.	Each	1660.00
6.62	Supplying and fixing red Ashlar 17 cm thick ventsill with required slope (face & sill 3 line dressed) complete including cutting and moulding	Mtr.	2656.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.63	Supplying and fixing red Ashlar 17 cm thick exposed width todies under slopped Chajja with alternate projection and cutting complete including cutting & moulding.	Mtr.	2689.00
6.64	Supplying and fixing red Ashlar 17 cm thick exposed width todies under slopped Chajja F.F. type design 22x22 cm projection (all 0.60 x 0.95 x 0.25 m)	Each	2521.00
6.65	Supplying and fixing 22 cm. Thick red Ashlar bed (pillar cap) 45 cm wide X 135 cm long (3 line dressed) all exposed side complete including cutting, moulding and chamffering etc.	Each	5047.00
6.66	Supplying and fixing white soorsagar stone coping 13 Cm thick & 45 cm wide with 3 set back groove & one projection with sloped tope edge including cutting, moulding and chamffering etc.	Sqm	4832.00
6.67	Labour charges for Animar dressing (old M.G.H. pattern) over Soorsagar or equivalent white Ashlar over already two line dressed surface by using special tools i.e. toothed chisel etc.	Sqm	848.00
6.68	Labour charges for soorsagar or equivalent white Ashlar stone cornice of approved shape and design 18 cm. thick 38 to 40 cm. wide and Animar dressing of M.G.H. pattern (including cutting and moulding).	Mtr.	1111.00
6.69	Labour charges for providing 8 to 10 cm. Gola with animar dressing as per old M.G.H. pattern on white Ashlar	Mtr.	496.00
6.70	Labour charges for soorsagar or equivalent white Ashlar stone coping 15 Cm. thick with cutting, moulding and dressing as per old M.G.H. pattern	Mtr.	966.00
6.71	Labour charges for fixing of stone chhajja and making good the same (exposed surface to be measured. (A) Red Ashlar (B) White Ashlar	Sqm	263.00
		Sqm	266.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.72	Supplying and fixing stone liri in CM 1:4 work facing with proper projection and chiesel dressing of edges of stone two line dressing of building corners, jambs etc. including uniform joints using aluminium square section of size 12 mm to 15 mm as per requirement of course and width of stone not less than 12 Cm., with requisite number headers (minimum length of stone 0.9 M) 6 cm. to 9 Cm. thick. (i) 6 cm. to 9 Cm. thick including finsing face joint with white cement moartar and matching pigment. (ii) Add extra for 7 to 10 cm. thick courses. (iii) 14 cm (5.5") thick including finising face joint with white cement moartar and matching pigment.	Per Sqm.	1981.00
6.73	Stone masonry 7 to 15 Cm. thick cladding in cement sand mortr 1:6 with C.R. First Sort facing and rock facing complete on R.C.C. or C.C. works up to 15 to 20 cm. height.	Sqm	324.00
6.74	Add extra for two line horizontal edges (Patti) dressing of course Khandas	Mtr.	2167.00
6.75	Providing and fixing of machine cut Soorsagar white stone pavement size 600x600 mm and 50 to 75 mm thick over 20 mm thick base cement sand mortar 1:6 be placed at 50-60 mm interval as per existing pavement design. (used single piece 60 cm x 60 cm.)	Sqm	59.00
6.76	S&F 50 to 75 mm thick fine dressed and machine grained surface white Soorsgar stone partition in cement mortar 1:6 with joint finish flush pointing with white cement sand mortar 1:3 with colour pigment of approved shade as per existing shop & as per direction of Engineer-in-charge.	Sqm	2092.00
6.77	S&F white ashlar stone machine cut Kangura as per approved design 5 cm to 7 cm thick and top portion half round up to 10-12 cm height. Both machine cut finished including excavation of earth work and fixing in cement sand mortar 1:6 as per direction of Engineer incharge complete in all respect size 35 cm wide 5/7 cm thick with all taxes.	Mtr.	2178.00
6.78	P&F white ashlar Todies of machine cut for chhajja of porch fixing in cement mortar of gypsum etc. complete in all respect size 30x30x10 cm.	Each	796.00
			1050.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.79	P&F white ashlar Todies of machine cut for corners of porch fixing in cement mortar or gypsum etc. complete in all respect size 45x30x10 cm.	Each	1224.00
6.80	Supply & fixing or equivalent white ashlar stone archess fully fine fine (3 line) dressed 0.90 M (3' span)	Each	9724.00
6.81	Supply & fixing or equivalent white ashlar stone archess fully fine fine (3 line) dressed 1.20 M (4' span) finished.	Each	11756.00
6.82	Supply & fixing or equivalent white ashlar stone archess fully fine fine (3 line) dressed 1.50 M (5' span) finished.	Each	13434.00
6.83	Supply & fixing or equivalent white ashlar stone archess fully fine fine (3 line) dressed 1.80 M (6' span) finished.	Each	15112.00
6.84	Supply & fixing or equivalent white ashlar stone archess fully fine fine (3 line) dressed 2.10 M (7' span) finished.	Each	17855.00
6.85	Providing & Installation of White ashlar stone Carved perforated Jali 50 to 70mm thick with height 600mm and length not exceeding 1250mm with pillar 900mm long with groove cutting etc. complete as per direction of Engineer-in-charge (excluding cost of providing & fixing dassa).	Rm	8077.00
6.86	Supplying and fixing stone liri in CM 1:4 work facing with proper projection and chiesel dressing of edges of stone two line dressing of building corners, jambs etc. including uniform joints using aluminium square section of size 12 mm to 15 mm as per requirement of course and width of stone not less than 12 Cm., with requisite humber headers (minimum length of stone 0.9 M) 14 cm (5.5")thick.	Sqm	2081.00
6.87	Supplying and fixing Jodhpur machine cut stone Kadau in CM 1:4 with rock facing with proper projection and machine cut edges of stone, two line dressing of building corners, jambs etc. including uniform joints using aluminium square section of size 12 mm to 15 mm as per requirement of course and width of stone not less than 12 Cm., with requisite humber headers (minimum length of sotne 0.9 M)		
(i)	29cm (11.5")height	Per Sqm.	3259.00
(ii)	19cm (7.5")height	Per Sqm.	2880.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
6.88	Supply and fixing Jodhpur sand stone Machine cut Dash, Coping,sill,lintel fixed in cement sand mortar 1:4. (i) 15 cm (6") thick (ii) 9 cm (3.5") thick (iii) 5 cm (2") thick (iv) 3.5 cm (1.5") thick	Per Sqm.	2923.00 2081.00 2167.00 1984.00
6.89	Supply and fixing Jodhpur sand stone Machine cut Kerb stone (10cm wide 40 cm. height) fixed in white cement sand mortar 1:4 with pigment including EarthWork.	Rm.	857.00
6.90	Supply and fixing Jodhpur sand stone Machine cut Nali fixed in white cement sand mortar 1:4 with pigment including E/W (A) Single nali 55 cm wide 40 cm hight (B) Double nali 85 cm wide 40 cm hight	Rm. Rm.	3421.00 4312.00
6.91	Add extra for facing with white ashlar stone three line dressed of size 300x300mm with min. thickness of 125mm, including all four edge are chamfered cut 12mm x 12mm with 3 line dressing, every fifth stone header with thickness min.300 mm,including additional cost of stone as per drawing or as approved by Engineer In Charge, Complete with all respect .	Sqm	4350.00
6.92	Fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:4 (1cement : 4 coarse sand) with joints finished flush. Red Sand stone size not less than 1350 Cm ² , a) 40mm b) 50mm c) 75mm	Sqm	1244.00 1392.00 1685.00
6.93	Fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:4 (1cement : 4 coarse sand) with joints finished flush. White Sand stone size not less than 1350 Cm ² , a) 40mm b) 50mm c) 75mm	Sqm	1392.00 1538.00 1831.00
6.94	Chiesel dressing of machine cut Jodhpur ashlar stone.	Sqm	517.00

CHAPTER : B - 7

MARBLE, GRANITE AND TILE WORKS

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

7.1 Providing and fixing Marble stone flooring table rubbed, 15-18 mm thick over 20mm (Av.) thick base of CM 1:4 (1 cement : 4 coarse sand) jointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete.

OR

Providing and fixing stone slabs table rubbed, 15-18 mm thick in Walls, Steps, Pillars, Counters, Jambs, Shelves, Sills etc. laid on 12mm (Av.) thick base of CM 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete.

7.1 Makrana 'Adanga'.

7.1.1 Upto to 1500 Cm ² Tiles	Sqm.	1164.00
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7.1.2 1501 Cm ² to 3600 Cm ² Tiles	Sqm.	1350.00
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7.1.3 Above 3601 Cm ² Slabs	Sqm.	1674.00
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7.2 Rajnagar 1st quality/Ageria with light spots.

7.2.1 Up to 1500 Cm ² Tiles	Sqm.	1044.00
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7.2.2 1501 Cm ² to 3600 Cm ² Tiles	Sqm.	1157.00
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7.2.3 Above 3601 Cm ² Slabs	Sqm.	1305.00
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7.3 Keseriaji/ Abu Ambaji (Green Marble)

7.3.1 Up to 1500 Cm ² Tiles	Sqm.	1084.00
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7.3.2 1501 Cm ² to 3600 Cm ² Tiles	Sqm.	1268.00
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7.3.3 Above 3601 Cm ² Slabs	Sqm.	1674.00
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7.4 Bhaislana,Abu,Kishangarh Zebra (Black Marble)

7.4.1 up to 1500 Cm ² Tiles	Sqm.	1029.00
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7.4.2 1501 Cm ² to 3600 Cm ² Tiles	Sqm.	1120.00
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7.4.3 Above 3601 Cm ² Slabs	Sqm.	1361.00
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Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
7.5	Providing and fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, Shelves, Sills Counters, Floors etc. laid on 12mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete.		
7.5.1	Jhunjhunu / Jalore (Red/Choclate/Black/Pink Colour)		
(i)	Up to 1500 Cm ² Tiles	Sqm.	1993.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	2818.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	3028.00
7.5.2	South (Red)		
(i)	Up to 1500 Cm ² Tiles	Sqm.	2453.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	2944.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	3434.00
7.5.3	South Zed Black		
(i)	Up to 1500 Cm ² Tiles	Sqm.	2334.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	3176.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	4076.00
7.5.4	Good quality South Black		
(i)	Up to 1500 Cm ² Tiles	Sqm.	2310.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	2952.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	3850.00
7.5.5	Jalore (P-white / S-white/ Rosy Pink colour)		
(i)	Up to 1500 Cm ² Tiles	Sqm.	1850.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	2400.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	2750.00
7.5.6	Rajasthan Black		
(i)	Up to 1500 Cm ² Tiles	Sqm.	2000.00
(ii)	1501 Cm ² to 3600 Cm ² Tiles	Sqm.	2600.00
(iii)	Above 3601 Cm ² Slabs	Sqm.	3100.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
7.6	Extra for providing edge moulding to 15-18mm thick marble/ Granite/Kota stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
7.6.1	Marble work		
(i)	Full Edge moulding	Mtr.	146.00
(ii)	Half Edge moulding	Mtr.	88.00
7.6.2	Granite/Kota Stone Work		
(i)	Full Edge moulding	Mtr.	233.00
(ii)	Half Edge moulding	Mtr.	143.00
7.7	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete	Mtr.	24.00
7.8	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete	Each Opening	256.00
7.9	Extra for Mirror polishing on marble work where ever required to give high gloss finish complete.	Sqm.	102.00
7.10	Extra in marble/other flooring work for upto 50 mm wide strip of Green/White/ Jaisalmer stone in flooring work as per direction of Engineer in Charge	Rm	52.00
7.11	Providing and fixing cramps of required size & shape in RCC/ CC backing with cement mortar 1:2 (1 cement :2 coarse sand) including drilling necessary hole in stones and embedding the cramp in the hole .		
7.11.1	Gun Metal cramp	Kg	642.00
7.11.2	Stainless steel cramps	Kg	611.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
7.12	Providing and fixing 1st quality standard white, grey, ivory, fume red brown, light green, light blue and other light shades glazed tiles confirming to IS : 13753 & IS :15622 of size 200mm x 300mm in walls, floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (excluding the cost of cement plaster on walls and pillar).	Sqm.	674.00
7.13	Providing and fixing 1st quality MAT finished ceremic tile size 300x300mm confirming to IS : 13755 and IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed	Sqm.	748.00
7.14	Extra for using Marble printed / Granite shade or dark shade tiles instead of white, grey, ivory, fume red brown, light green, light blue and other light shades in glazed tiles and MAT finished tiles.	Sqm	10%
7.15	Extra for using size above 200x300mm in glazed tiles and for using 400mm x 400mm MAT finished tiles in place of 300mm x 300mm size.	Sqm	10%
7.16	Providing and fixing 75 mm wide Decorative Border in different shades and in all coloures in glazed tiles laid over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white mixed with pigment of matching shade complete.	Rmt.	329.00
7.17	Providing and fixing Motive pieces all colours for glazed tiles laid over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white mixed with pigment of matching shade complete..		
7.17.1	Size 200 x 200mm	Each	130.00
7.17.2	Size 200 x 300mm	Each	155.00
7.17.3	Size 300 x 300mm	Each	219.00
7.17.4	Size 300 x 450mm	Each	250.00
7.17.5	Size 300 x 600mm	Each	281.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
7.18	P & F 1st quality Vitrified Porcelain Polished tiles on floor, skirting and steps etc. in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1 : 4 including grouting the joints with white cement and matching pigment etc complete.		
7.18.1	size 450 mm X 450 mm	Sqm	789.00
7.18.2	size 600 mm X 600 mm	Sqm	911.00
7.18.3	size 800mm X 800 mm	Sqm	1100.00
7.19	Add extra for Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sqm of tile area, in average 3mm thickness instead of cement mortar.	Sqm	128.00
7.20	Providing and fixing 1st quality standard white, grey, ivory, fume red brown, light green, light blue and other light shades ceramic glazed vitrified tiles with water absorption less than or equal to 0.08% confirming to IS:13753 & IS : 15622 on walls, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (excluding the cost of cement plaster on walls and pillar).		
7.20.1	Size 600mm x 1200mm	Sqm	1463.00
7.20.2	Size 800mm x 1200mm	Sqm	1825.00
7.20.3	Size 196mm x 1215mm	Sqm	1824.00
7.21	Providing and fixing 1st quality MAT & GLOSSY finished ceramic tile confirming to IS : 13755 and IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed 1:4).		
7.21.1	Size 250mm x 375mm	Sqm	727.00
7.21.2	Size 300mm x 450mm	Sqm	809.00
7.21.3	Size 300mm x 600mm	Sqm	894.00
7.21.4	Size 250mm x 1000mm	Sqm	1079.00
7.21.5	Size 600mm x 600mm	Sqm	1162.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
7.22	P & F 1st quality Heavy Duty Vitrified Polished Digital tiles on floor, skirting and steps etc.in different sizes (thickness minimum 10mm) with water absorption less than or equal 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1: 4 including grouting the joints with white cement and matching pigment etc complete.		
7.22.1	Size 298mm x 298mm	Sqm	705.00
7.22.2	Size 300mm x 450mm	Sqm	870.00
7.22.3	Size 600mm x 600mm	Sqm	1126.00
7.22.4	size 600 mm X 1200 mm	Sqm	1415.00
7.23	Providing non slip grooves to granite/ kota stone flooring, counters, vanities etc. using groove cutter V type including machine polishing to groove to give high gloss finish etc. complete as per design approved by engineer in charge	Mtr.	105.00
7.24	P & F 1st quality Heavy Duty Vitrified glazed MAT tiles on floor, skirting and steps etc.in different sizes (thickness minimum 10mm) with water absorption less than or equal 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1: 4 including grouting the joints with white cement and matching pigment etc complete.		
7.24.1	size 600 mm X 600 mm	Sqm	1183.00
7.24.2	size 600 mm X 1200mm	Sqm	1645.00
7.25	P & F 1st quality Heavy Duty Vitrified Double Charged tiles on floor, skirting and steps etc.in different sizes (thickness minimum 10mm) with water absorption less than or equal 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1: 4 including grouting the joints with white cement and matching pigment etc complete.		
7.25.1	size 600 mm X 600mm	Sqm	1041.00
7.25.2	size 800 mm X 800mm	Sqm	1296.00
7.25.3	size 1000 mm X 1000mm	Sqm	1464.00
7.25.4	size 600 mm X 1200mm	Sqm	1425.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 7.26 Providing and fixing 1st quality standard Marble printed/ Granite Shade or Light/dark shade glazed tiles confirming to IS : 13753 & IS :15622 of size 300mm x 600mm in walls, floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (excluding the cost of cement plaster on walls and pillar).

CHAPTER : B-8 **WOOD WORK**

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.1	Providing & fixing door, window, chowkhats and other frames, including antitermite treatment, M.S. flat, hold fasts of size 250 x 40 x 3mm fixed with M.S. bolt 5mm dia 50mm long duly embedded in cement concrete M-15 grade :		
8.1.1	Sal wood Grade - I.	Cum	48847.00
8.1.2	Kiln seasoned and chemically treated Hollock wood. Grade I	Cum	41491.00
8.1.3	Sheesham wood Grade - I.	Cum	101671.00
8.1.4	Nigeria teak wood Grade - I.	Cum	110138.00
8.1.5	Ghana teak wood Grade - I.	Cum	118554.00
8.1.6	Ivory coast wood Grade I	Cum	135533.00
8.2	Supplying and fixing wood work in frames of wall panelling, false ceiling partition wall etc. as per approved design and drawing including antitermite treatment.		
8.2.1	Hollock wood Grade - I.	Cum	46270.00
8.2.2	Chir wood Grade - I.	Cum	43387.00
8.3	Add extra in frames for circular members such as in fan lights, staircase railing etc.	Cum	10%
8.4	Providing and fixing fully panelled/partly panelled/ double leaf shutter frames for doors as per approved design and drawings with approved ordinary C.P./ oxidised steel fittings as per Annexure - 'A' and width of styles & top rails of 100mm and lock rails width of 150mm and bottom rails of 200mm width including teak wood beading of size 19mm x 12mm on both faces complete :		
8.4.1	35 mm thick		
8.4.1.1	Nigeria wood grade I	Sqm	2778.00
8.4.1.2	Ghana wood grade I	Sqm	2968.00
8.4.1.3	Shesham wood grade I	Sqm	2584.00
8.4.1.4	Ivory coast wood grade I	Sqm	3345.00
8.4.2	30 mm thick		
8.4.2.1	Nigeria wood grade I	Sqm	2465.00
8.4.2.2	Ghana wood grade I	Sqm	2628.00
8.4.2.3	Shesham wood grade I	Sqm	2284.00
8.4.2.4	Ivory coast wood grade I	Sqm	2957.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.5	Providing and fixing fully panelled /partly panelled double leaf shutters frame for windows and ventilators as per approved design and drawings with approved steel fittings as per Annexure 'A' and width of styles, bottom and top rails 75mm including intermediate rails 50mm wide, beading of 25mm x 15mm size on both faces :		
8.5.1	35 mm thick		
8.5.1.1	Nigeria wood grade I	Sqm	2488.00
8.5.1.2	Ghana wood grade I	Sqm	2650.00
8.5.1.3	Shesham wood grade I	Sqm	2312.00
8.5.1.4	Ivory coast wood grade I	Sqm	2976.00
8.5.2	30 mm thick		
8.5.2.1	Nigeria wood grade I	Sqm	2208.00
8.5.2.2	Ghana wood grade I	Sqm	2347.00
8.5.2.3	Shesham wood grade I	Sqm	2045.00
8.5.2.4	Ivory coast wood grade I	Sqm	2627.00
8.5.3	25 mm thick		
8.5.3.1	Nigeria wood grade I	Sqm	1929.00
8.5.3.2	Ghana wood grade I	Sqm	2039.00
8.5.3.3	Shesham wood grade I	Sqm	1779.00
8.5.3.4	Ivory coast wood grade I	Sqm	2277.00
8.6	Providing and fixing wood panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled and glazed shutter 25 mm to 40 mm thick		
8.6.1	Wood panel grade I		
8.6.1.1	Nigeria wood Grade I	Sqm	2244.00
8.6.1.2	Ghana wood grade I	Sqm	2398.00
8.6.1.3	Shesham wood grade I	Sqm	2079.00
8.6.1.4	Ivory coast wood grade I	Sqm	2708.00
8.6.2	IS 710- 1976 marked 9 mm thick commerical ply	Sqm	906.00
8.6.3	IS 710- 1976 marked 9 mm thick Teak ply BWR one side	Sqm	1568.00
8.6.4	IS 710- 1976 marked 9 mm thick Teak BWR ply both side	Sqm	1821.00
8.6.5	IS 710- 1976 marked 12 mm thick commerical ply	Sqm	1081.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.6.5A	IS 710- 1976 marked 19 mm thick commerical ply	Sqm	1243.00
8.6.6	IS 710- 1976 marked 12 mm thick Teak ply BWR one side	Sqm	1821.00
8.6.7	IS 710- 1976 marked 12mm thick Teak ply BWR both side	Sqm	2074.00
8.6.8	Wire gauge 24 gauge 14 mesh of IS 1568-1970 marked 85 gauge of dia 0.56 mm	Sqm	695.00
8.6.9	SS wire gauge 14 mesh x 24 gauge	Sqm	927.00
8.6.10	4 mm plain float glass	Sqm	839.00
8.6.11	5 mm float glass	Sqm	1020.00
8.6.12	8 mm thick glass	Sqm	1445.00
8.6.13	6 mm thick glass	Sqm	1694.00
8.6.14	10 mm thick glass	Sqm	2357.00
8.6.15	12 mm thick glass	Sqm	2755.00
8.6.16	5 mm tinted glass	Sqm	1628.00
8.6.17	5 mm reflected glass	Sqm	1827.00
8.7 (a)	Extra for providing frosted glass panes instead of ordinary float glass panes in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	306.00
8.7 (b)	Extra for providing toughened glass panes instead of ordinary float glass panes in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Per mm Per Sqm	50.00
8.8	Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows, shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	96.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.9	Extra for providing IS 1341-1992 marked Stainless Steel butt hinges instead of black enamelled M.S. butt hinges with necessary screws. (Shutter area to be measured).	Sqm	127.00
8.10	Extra for providing movable/ fixed Nigeria / Ghana /Ivory Teak wood grade - I louvers instead of wooden panels in column No.4 for Nigeria / Ghana/Ivory Teak wood door shutters.	Sqm	10 %
8.11	Deduct for providing Single leaf shutter instead of double leaf.	Sqm	20 %
8.12	Add extra for etching work in glass work as per direction of engineer incharge (Area of opening for glass panes excluding portion inside rebate shall be measured)	Sqm	20%
8.13	Providing and fixing external grade board solid core single leaf flush door shutters ISI 2202-67 marked using Phenol formal dehyderesin in glue both sides with approved steel fittings complete as per annexure 'A' :		
8.13.1	25 mm thick .		
8.13.1.1	Commercial Veneer both side	Sqm	1686.00
8.13.1.2	Decorative teak veneer One side	Sqm	1894.00
8.13.1.3	Decorative teak veneer both side	Sqm	2376.00
8.13.2	30 mm thick .		
8.13.2.1	Commercial Veneer both side	Sqm	1841.00
8.13.2.2	Decorative teak veneer One side	Sqm	2033.00
8.13.2.3	Decorative teak veneer both side	Sqm	2440.00
8.13.3	35 mm thick .		
8.13.3.1	Commercial Veneer both side	Sqm	1991.00
8.13.3.2	Decorative teak veneer One side	Sqm	2248.00
8.13.3.3	Decorative teak veneer both side	Sqm	2505.00
8.14	Extra for providing external lipping with 2nd class teak wood battens 6 mm minimum depth on all edges of shutters (over all area of door shutter to be measured) Over item no. 8.13.	Sqm	141.00
8.15	Extra for providing vision panel not exceeding 0.1 Sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :	Each	128.00
8.16	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured). .	Sqm.	308.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.17	Extra for cutting rebate in flush door shutters for making double leaf shutter(Total area of the shutter to be measured).	Sqm.	89.00
8.18	Extra for providing other type of fittings as mention in annexure A (as approved by EI) :		
8.18.1	Brass fittings	Sqm.	20 %
8.18.2	Stainless steel fittings	Sqm.	10%
8.19	Providing and fixing Hollow core partition wall using 50x30 mm Chir wood frame 600 mm c/c on both directions,door opening as per drawing with steel fittings antitermite treatment complete as per specifications using :		
8.19.1	ISI 4 mm thick commercial ply with 0.80 mm mica with adhesive on both sides.	Sqm	2044.00
8.19.2	ISI 4 mm teak ply one side BWR	Sqm	1928.00
8.20	Providing and fixing wall panelling using soft wood frame of size 50x25mm @600 mm c/c in both directions duly treated with anti-termite treatment making grooves painting of grooves specification and drawing using :		
8.20.1	ISI 6 mm teak ply one side BWR	Sqm	1484.00
8.20.2	ISI 9 mm teak ply one side BWR	Sqm	1786.00
8.20.3	12mm thick Acoustical Board	Sqm	1426.00
8.20.4	12 mm thick one side laminated board Practical board (Phenol bonded)	Sqm	1748.00
8.21.1	Providing and fixing 50 mm thick resin bounded glass wool 32 kg/cum density wrapped in julities cloth bag (box type) and held in position using chicken mesh	Sqm	560.00
8.21.2	Providing and fixing Hessian cloth of approved colour and texture over soft wood frame glass wool & fibre glass tissue paper	Sqm	312.00
8.22	Providing and fixing expandable fastners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/R.C.C. and making good etc. complete		
8.22.1	25 mm long	Each	13.00
8.22.2	32 mm long	Each	17.00
8.22.3	40 mm long	Each	18.00
8.22.4	50 mm long	Each	19.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.23	Providing and fixing Nigeria / Ghana /Ivory Coast Teak wood grade-I mouldings and beadings in doors and windows size :-		
8.23.1	50x12 mm	Mtr	89.00
8.23.2	50x20 mm	Mtr	127.00
8.23.3	25x12 mm	Mtr	72.00
8.23.4	25x20 mm	Mtr	88.00
8.24	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plate MS 20 mm dia curtain rod with nickel plated bracket including fixing with 25x3 mm MS flat 10 cm long all complete	Mtr	341.00
8.25	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:		
8.25.1	12 mm	Mtr..	231.00
8.25.2	20 mm	Mtr..	266.00
8.26	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	Each	908.00
8.27	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	Each	1478.00
8.28	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of wood in scantling of section 50X25mm fixed with nails and GI wire to existing surface complete as per direction of EI	Sqm	413.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.29	Providing and Fixing Bamboo Zafari/Fencing consisting of superior quality 25mm dia Solid Bamboo placed vertically & fixed together with 3 Nos Horizontal running members of wood in scantling of section size 50x40mm and fixed with nut and bolt to existing surface/angle post as per direction given by Engineer-in-charge	Sqm	941.00
8.30	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood. 50x50mm (base and height)	Rm	182.00
8.31	Providing and fixing bright finished Mortice lock of approved make Godrej or equivalent with pair of CP handles for doors with necessary screws etc complete (Best make of approved quality) as per direction of Engineer-in-charge.	Each	629.00
8.32	Extra for providing Brass handle instead of CP handle	Each	10%
8.33	Providing and fixing Almirah lock (50 to 70 mm size)of approved make without pair of handles for door with necessary screws etc complete as per direction of Engineer-in-charge.	Each	150.00
8.34	Providing & Fixing of ward robe shutters made out of 19mm thick BWP block board ISI of superior quality make with following details :- Front side finishing with 1mm thick superior quality mica approved make and 0.8mm thick approved shade mica in the inner side. Covering with teak wood beading 25x12mm all the sides of shutter & 35x12mm on outer frame for making good the wall joint including heavy brass S.S. fittings (Handle 200mm 2 Nos., Tower Bolt 150mm 2 Nos., Brass Lock 1 Nos., Magnetic Catcher 2 Nos., Brass Hinges 75x40x2.5 mm 6 Nos., SS Hanger Rod 20mm dia) complete as per drawing and design approved by Engineer in Charge.	Sqm	5571.00
8.35	Providing & Fixing mica of approved make for inner/outer side of shutters with fevicol & nails complete as per approved by engineer in charge.		
8.35.1	0.6mm thick mica	Sqm	627.00
8.35.2	0.8mm thick mica	Sqm	762.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
8.36	Providing & Fixing decorative veneer of approved make for inner/outer side of shutters with fevicol & nails complete as per approved by engineer in charge.		
8.36.1	4.0mm thick veneer	Sqm	1434.00
8.36.2	6.0mm thick veneer	Sqm	1569.00
8.37	Providing and fixing S.S. Rod 30mm dia (304 grade ,16SWG) including brackets fixed with C.P. brass screws and rawl plugs, etc., wherever necessary complete two side central all fittings.	Rmt	650.00
8.38	Providing & Fixing BWR ISI marked 19 mm board of approved make for making wardrobe/shelves and other furniture with fevicol & nails complete as per approved by engineer in charge.	Sqm	1350.00
8.39	Providing & Fixing Commercial Ply as per IS 710 : 1976 BWR of approved make for making wardrobe/shelves and other furniture with fevicol & nails complete as per approved by engineer in charge.		
(i)	18 mm thick	Sqm	1350.00
(ii)	12 mm thick	Sqm	1031.00
(iii)	6 mm thick	Sqm	850.00
8.40	Providing & Fixing telescopic channel of approved make for drawers with screws complete as per approved by engineer in charge.		
(i)	300mm long	Each	426.00
(ii)	400mm long	Each	513.00
(iii)	450mm long.	Each	563.00
(iv)	500mm long	Each	628.00
(v)	600mm long	Each	751.00
8.41	Providing & Fixing drawer handle of approved make for drawers with screws complete as per approved by engineer in charge.		
(i)	100mm long	Each	159.00
(ii)	150mm long	Each	195.00
8.42	Providing & Fixing drawer lock of approved make for drawers with screws complete as per approved by engineer in charge.	Each	448.00

CHAPTER : B-9

STEEL & FENCING WORKS

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.1	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting (height upto 10 m), fixing in position and applying a priming coat of approved steel primer all complete.	Kg.	72.00
9.1.1	Add Extra if I/rail section is used	Kg.	10%
9.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting (height upto 10 m) , fixing in position and applying a priming coat of approved steel primer all complete:	Kg.	81.00
9.3	Steel work in built up tubular trusses including cutting, hoisting (height upto 10 m)fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
9.3.1	Hot finished welded type tubes.	Kg.	100.00
9.3.2	Hot finished seamless type tubes.	Kg	109.00
9.3.3	Electric resistance or induction butt welded tubes.	Kg.	131.00
9.4	Extra for hoisting and fixing for every additional one metre or part thereof beyond 10 mtr height.	Kg.	6.00
9.5	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as require including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	Kg.	83.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.6	Providing and fixing pressed steel door frames confirming to IS 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface including filling with CC 1:2:4(M15 grade) complete as directed by Engineer-in-charge :		
9.6.1	Profile B	Mtr.	429.00
9.6.2	Profile C	Mtr.	469.00
9.6.3	Profile E	Mtr.	506.00
9.7	Supply and fixing in cement mortar welded hand railing made out of MS round or square bars, flats etc. for staircase or verandah as per design complete in all respect (wooden or PVC hand railing to be paid extra) with priming coat of red oxide.	Kg.	81.00
9.7.1	Extra for providing D type pipe head as top of hand railing	Kg.	10%
9.8	Providing and fixing steel gate, grating , and grills made of angles, tees, square bars, flats,or black pipe with holdfast and fittings complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide	Kg.	96.00
9.8.1	Extra if square,rectangular hollow tubelar sections are used or grill made by flats only	Kg.	10%
9.9	Providing and fixing cow catcher made of R.S. joist angles channels MS rounds including cutting welding and fabrication with priming coat of red oxide (as per design).	Kg.	74.00
9.10	Providing and fixing in position collapsible steel shutters with vertical M.S. Channels 20 x 10 x 2mm and bracket with flat iron diagonals 20 x 5mm. size with top and bottom rail of T-iron 40 x 40 x 6mm. with 40mm dia steel pulleys/ball bearing complete with bolts, nuts locking arrangements inside and outside stoppers, handles etc. as per specification including applying a priming coat of approved steel primer. (To be measured and paid as per outer dimension).	Sqm.	5174.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.11	Providing and fixing 1mm thick M.S. sheet sliding-shutters with frame & diagonals braces of 40 x 40 x 6mm. angle iron 3mm M.S. gusset plates at the junction and corners, 25mm dia pulley 40x40x6mm angle and T-iron guide at the top and bottom respectively including applying a priming coat of approved steel primer.	Sqm	3579.00
9.12	Providing and fixing 1mm thick M.S. sheet garrage door shutters with frame of 40 x 40 x 6mm. angle iron 3mm M.S. gusset plates at the junction and corners including all fittings and applying a coat of approved steel primer : (Excluding cost of frames)		
9.12.1	Using M.S. angles 40 x 40 x 6mm for diagonal braces.	Sqm.	3141.00
9.12.2	Using flats 30 x 6mm for diagonal braces and central cross piece.	Sqm.	2993.00
9.13	Supplying and fixing rolling shutters of approved make, made of 80 x 1.25mm. M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including cost of spring hooks, providing and fixing necessary 25.3cm. long wire springs grade No. 2 and M.S. top cover 1.25mm thick for rolling shutters as per design & IS 6248- 1979. (Clear openable area to be measured for payment).	Sqm.	2074.00
9.14	Providing & fixing ball bearing for rolling shutters	Each	516.00
9.15	Extra for providing mechanical device chain and crank operation for operating rolling shutters.		
9.15.1	Exceeding 10.00 Sqm and upto 16.80 Sqm in the area.	Sqm.	823.00
9.15.2	Exceeding 16.80 Sqm in the area.	Sqm.	887.00
9.16	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge. (area of grill to be measured).	Sqm.	327.00
9.17	Providing and fixing M.S. sheet 1mm thick single leaf door shutter in angle iron frame 35x35x5mm suitably diagonally braced with 25x3mm flat iron above and below lock rail of size 50x5mm beading extra including all fittings, as per direction of Engg. incharge but excluding cost of chowkhats: including two coats of anit-corrosive red oxide primer paint	Sqm.	2869.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.17.1	Add extra for double leaf shutters.	Sqm.	20%
9.18	Fixing standard steel glazed doors, windows and ventilators in walls with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws (only steel windows with lugs, glass pane cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.)	Sqm.	278.00
9.19	Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section (IS 1038-1983) joints mitred and welded with steel lugs 13x3mm, 10cm. long embedded in cement concrete block 15x10x10cm. of 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4mm thick with cooper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approval steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required :		
9.19.1	Doors	Sqm.	3099.00
9.19.2	Windows fixed	Sqm.	3090.00
9.19.3	Windows side hung /Ventilators top or centre hung (openable)	Sqm.	3135.00
9.19.4	Partly fixed and partly openable [fixed area not to exceed 33%]	Sqm.	3090.00
9.20	Providing brass handles/peg stays and fittings in place of oxidized fitting	Sqm.	5%
9.21	Aluminium handles/peg stays fitting instead of oxidized	Sqm.	3%
9.22	5mm thick plain glass instead of 4mm thick plain glass	Sqm.	95.00
9.23	Deduct for Not providing glass panels	Sqm.	311.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.24	Deduct for Pin headed 4mm thick glass panels is used instead of 4mm thick plain glass	Sqm.	5%
9.25	Deduct for Not provided oxidised fittings.	Sqm.	5%
9.26	Supplying and fixing fixed wire gauge of 14 mesh x 24 gauge to the metal frame of rolled section by metal beading 20x3mm with suitable screw at not exceeding 150mm distance.	Sqm.	617.00
9.27	Providing and fixing Square bars or other flat welded to window, ventilations etc.	Kg.	65.00
9.28	Providing and fixing steel glazed window frame made out of 80x40 mm hollow sheet section of 16 gauge thickness, joint mitred welded and grinded including hold fast of steel lugs 13mm x 3mm and 15 Cm long embedded in C C block 15 x 10 x 10 Cm of 1:3:6 nominal concrete and including fixing of pivoted hinges of superior quality, window shutters made out of 50 x 25.0 mm hollow steel section 15 mm paitam of 18 gauge thickness, joint mitred and grinded including 10mm x 10mm square bars welded to frame for paitam fixing float glass 4mm thick panes with glazing clips and metal sash putty and fixing of shutters frames peg stay, U shape handle 100 mm long, tower bolts 100 mm long of steel powder coated superior quality including fixing and jointing with frame hinges priming coat with steel primer complete in all respect as per direction of Engineer-in -charge		
9.28.1	Window openable.	Sqm	3803.00
9.28.2	Window fixed.	Sqm	3501.00
9.28.3	Extra for additional shutter in pipe section windows with wire gauge 14 mesh x 24 gauge	Sqm	1654.00

FENCING WORK

9.29	180cm high fencing with angle iron post 55x55x6mm. placed at every 3Mtr. apart 45cm. in ground embedded in cement concrete 1:3:6 (30x30x60cm) corner and every tenth post to be struttured with 55x55x6mm. angle iron provided with 6 horizontal lines and two diagonals of black barbed wire between two posts fitted and fixed with G.I. staples including earth work in excavation etc. complete.	Mtr.	586.00
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Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.30	150 cm high fencing of precast R.C. posts of 15cmx15cm tapered to 10x10cm at top placed at every 3m apart 30cm in ground embedded in cement concrete 1:3:6 (30x30x45cm) corner and every tenth posts to be strutted with same R.C. posts provided with 6 horizontal lines and two diagonals of black barbed wire between the two posts fitted and fixed with G.I. staples including earth work in excavation etc. complete	Mtr.	503.00
9.31	150cm high fencing with angle iron 50x50x6mm. placed at every 3Mtr. apart 30cm. in ground embedded in cement concrete 1:3:6 (30x30x45cm) corner and every tenth post to be strutted with 50x50x6mm. angle iron provided with 5 horizontal lines and two diagonals of black barbed wire between two posts fitted and fixed with G.I. staples including earth work in excavation etc. complete.	Mtr.	512.00
9.32	120cm. high fencing with angle iron posts 50x50x6mm. placed at every 3 Mtr. apart 30cm. in ground embedded in cement concrete 1:3:6 (30x30x45cm) corner & every tenth posts to be strutted with 50x50x6mm angle iron provided with four horizontal lines and two diagonals of black barbed wire between two posts fitted and fixed with G.I. staple including earth work in excavation etc. complete.	Mtr.	470.00
9.33	Add or deduct for each wire line over basic item	Mtr.	12.00
9.34	Add or deduct for additional or less higher per 10 Cm. over basic item	Mtr	5%
9.35	Extra for using galvanized barbed wire instead of black barbed wire.	Mtr. Each wire	5%
9.35.1	Add Extra if barbed wire fencing is done on wall upto height of 3.00 Mtr.	Mtr.	5%
9.36	Supplying and fixing of chain link fencing with angle iron posts 50x50x6mm placed at every 3 Mtr. apart 30cm in ground embedded in cement concrete 1:3:6 (30x30x45cm) corner and every tenth post to be strutted with (50 x 50 x 6cm) angle iron provided and fixed and fitted with posts including earth work in excavation etc. complete with chain link size.		
9.36.1	50mm x 50mm x 3.15mm	Sqm.	629.00
9.36.2	75mm x 15mm x 3.15mm	Sqm.	565.00
9.36.3	100mm x 100mm x 3.15mm	Sqm.	521.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
9.36.4	150mm x 150mm x 3.15mm	Sqm.	480.00
9.37	Providing and fixing concertina coil fencing with required dia 610 mm (having 15 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. stud tied with GI staples and GI clips to retain horizontal including necessary bolts or GI barbed wire tied to angle iron all complete as per direction of Engineer In Charge with reinforced barbed tape (R.B.T.)/Spring core(2.5 mm thick) wire of high tensile strength of 165 kg/sq.mm with tape (0.52 mm thick) and weight 43.478 gm/metre (Cost of MS angle, CC block shall be paid extra)	Mtr.	266.00
9.38	Providing and fixing welded mesh/expanded metal mesh in frame work, flat iron beading 20x3mm including top cross laps inside and out sides welding, iron bolts, crews, clips etc. complete (excluding frame work) of size.		
9.38.1	Welded mesh 50 mmx 50 mm x 2.1 mm	Sqm.	693.00
9.38.2	Welded mesh 50 mmx 25 mm x 2.1 mm	Sqm.	722.00
9.38.3	Welded mesh 25 mmx 25 mm x 2.1 mm	Sqm.	750.00
9.38.4	Expended metal size 20-25 mm size 18SWG	Sqm.	779.00
9.39	Providing and fixing of double leaf steel shutter for cupboard, the frame is made of pressed steel ISI section 80x25 mmx 1.25 mm thick with 1.00 mm MS sheet to spot welded including holdfasts of 15x3mm, MS oxidized fittings such as butt hinges, sliding doors bolts, handles, tower bolts and twin peg etc complete including applying priming coat of approved steel primer of red oxide zinc chromate and spray painting in approved shade with deco paint of approved quality complete as per direction of Engineer In Charge	Sqm	3895.00

CHAPTER : B-10 **ROOFING**

Note :

- 1 Rates are for complete item of work and are inclusive of all centering, shuttering, curing and finishing including all leads and delivery of material at site of work with all lead and lift.
- 2 The rates for G.I. sheet roofing are inclusive of all necessary, overlaps and wastage in cutting and all standard screws nuts washers bolts and nuts 'J' or 'L' hooks etc. required as per specifications.
- 3 All precautions shall be taken to ensure that the finished roof is water tight and without any leakage under all weather conditions. Particular care shall be taken in providing good workmanship specially at vulnerable points.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

GALVANISED IRON SHEET ROOFING

10.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape whenever required.			
10.1.1	1.00 mm thick with zinc coating not less than 275 gm/m ²	Sqm	904.00	
10.1.2	0.80 mm thick with zinc coating not less than 275 gm/m ²	Sqm	765.00	
10.1.3	0.63 mm thick with zinc coating not less than 275 gm/m ²	Sqm	645.00	
10.2	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimetre for chimney stacks, sky light etc. :	P.Mtr. Peri- meter	31.00	
10.3	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimetre :	P.Mtr. Peri- meter	143.00	
10.4	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.			
10.4.1	0.80mm thick with zinc coating not less than 275	Mtr.	503.00	
10.4.2	0.63mm thick with zinc coating not less than 275	Mtr.	441.00	

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.5	Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8mm dia. G.I. limpet and bitumen washers complete : 1.60mm thick with zinc coating not less than 350gm/m ²	Mtr.	937.00
10.6	Providing flashing of 40 cm over all width in plain, G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand) 1.00mm thick sheet	Mtr.	358.00
10.7	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete.		
10.7.1	0.80mm thick	Mtr.	463.00
10.7.2	0.63mm thick	Mtr.	405.00
10.8	Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (As per IS: 14871) roofing upto any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses corrugated sheets and including cutting to size and shape wherever required	Sqm	383.00
10.9	Extra for straight cutting in non- asbestos polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre for chimney stacks, skylights etc.	Mtr.	28.00
10.10	Extra for circular cutting in non-asbestos polypropylene reinforced cement corrugated/ semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre.	Mtr.	75.00
10.11	Extra for providing and fixing wind ties of 40x 6mm flat iron section.	Mtr.	113.00
10.12	Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.		
10.12.1	One piece corrugated serrated adjustable ridges	Mtr.	387.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.12.2	Plain wing adjustable ridges	Mtr.	414.00
10.12.3	Close fitting adjustable ridges	Mtr.	510.00
10.12.4	Unserrated adjustable hips	Mtr.	436.00
10.13	Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete :		
10.13.1	Corrugated apron pieces	Mtr.	262.00
10.13.2	Eaves filler pieces	Mtr.	179.00
10.13.3	North light curve	Mtr.	388.00
10.13.4	Ventilator curve	Mtr.	486.00
10.13.5	Barge boards	Mtr.	397.00
10.13.6	Ridge final	pair	163.00
10.13.7	Special north light ventilator curve	Each	510.00
10.13.8	S type louvers	Mtr.	277.00
10.14	Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.	Mtr.	42.00
10.15	Painting top of roofs with bitumen of approved quality at 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cu dm per 10sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete: With residual type petroleum bitumen of penetration 80/100	Sqm	143.00
10.16	Stone slab roofing on ground floor with fine grained stone slab from approved quarry including filling of joints of parapet and slab on both sides in cement sand mortar 1:4, with ceiling pointing in cement sand mortar 1 : 3 complete as per specification and instruction of Engineer In Charge	Sqm	1648.00
10.16.1	Add extra for subsequent story	Sqm	20%
10.17	Grading roof for water proofing treatment with water proffing compound		
10.17.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	4483.00
10.17.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	5841.00
10.17.3	Cement mortar 1:4 (1cement : 4 coarse sand)	Cum	4862.00
10.18	Providing and laying brick kharanja on roofs with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound in square pattern		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.18.1	75mm to 100mm thick average	Sqm	277.00
10.18.2	55mm to 60mm thick average	Sqm	251.00
10.19	Providing and laying brick tiles of class designation 100 over roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat .	Sqm	358.00
10.20	Providing and fixing 20 mm thick precast terrazo tiles of approved make, with marble chips of size upto 6mm laid over roof with neat cement slurry mixed with pigment to match the shade of the tiles, including cutting ,grinding rubbing with machine complete on 20 mm thick bed of cement sand mortar 1 : 4.	Sqm	350.00
10.21	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations.</p> <p>(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound conforming to IS. 2645 over the RCC slab including cleaning the surface before treatment.</p> <p>(b) Laying cement concrete using broken bricks/brick bats 25 mm to 100mm size with 50% of cement mortar 1:4 (1 cement : 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p>		

Chapter Code No	Description	Unit	Rate (Rs.)
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	(c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300x300xmm square (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge. With average thickness of 120mm and minimum thickness at khurra as 65 mm.	Sqm	473.00
10.22	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	Mtr.	111.00
10.23	Making khurras 450 x 450mm with average minimum thickness 50mm cement concrete 1 : 2:4 over P.V.C. Sheet 1 Mtr. x 1 Mtr. x 40micron finished with 12mm cement plaster 1 : 3 and one coat of neat cement, rounding edges and making and finishing the out let complete.	Each	154.00
10.24	Providing & laying broken glazed titles on roof (broken glazed tiles not less than 9 Kg/Sqm) on top of hot bitumen @ 1.7 Kg/Sqm. (1.40 Kg of VG-40 (30/40)grade and 0.30 Kg/Sqm. Of VG-10 (80/100) grade) and joints filled with cement mortar 1 :2 (1 cement:2 marble dust mixed with water proofing compund all complete as per direction of Engineer-in-charge.	Sqm	317.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.25	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% Ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		
10.25.1	2.0mm thick (Wt. 3.3 Kg./Mtr. Sq.)	Sqm	911.00
10.25.2	3.0mm thick (Wt. 5.0 Kg./Mtr. Sq.)	Sqm	1231.00
10.25.3	5.0mm thick (Wt. 8.4 Kg./Mtr. Sq.)	Sqm	1872.00
10.26	Extra for corrugated Fiberglass Reinforced Plastic (FRP) (2.5" /4.2"/6") or step down (2.5" /4.2"/6") as specified.	Sqm	10%

FALSE CEILING

10.27	Providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS 2095- Part I at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long	Sqm	825.00
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Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting.			
10.28	Providing and fixing 14 mm thick Acoustical with fine fissured tiles/ Mineral fibre high density tiles with butt edges false ceiling tiles of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 21x21x0.30 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge. (The tiles should of 90 % RH avg. NCR 0.55 light reflectance > 80% thermal conductivity K = 0.052-0.057 w/m K colour white. Fire performance class 0/class I(BS 476) with warranty against sag)	Sqm	1063.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.29	<p>Providing & fixing 12 mm thick tegular edge Glass Fibre Reinforced Gypsum False ceiling tiles of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 21x21x0.30 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge.</p>	Sqm	1365.00
10.30	Providing and fixing calcium silicate board false ceiling at all heights including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

G.I. wire at every junction including fixing the calcium silicate board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufacturers specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting of thickness of calcium silicate board as below:-

10.30.1	6 mm thick	Sqm	913.00
10.30.2	8 mm thick	Sqm	1025.00
10.31	Providing & fixing calcium silicate ceiling tiles of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 21x21x0.30 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge of thickness of tiles as mentioned below:-		
10.31.1	6 mm thick	Sqm	649.00
10.31.2	8 mm thick	Sqm	745.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

10.32 Providing and fixing calcium silicate perforated board false ceiling at all heights including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm

long G.I. wire at every junction including fixing the calcium silicate board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufacturers specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but but excluding the cost of painting of thickness of calcium silicate board as below:-

10.32.1	6 mm thick	Sqm	1178.00
10.32.2	8 mm thick	Sqm	1317.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.33	<p>Providing & fixing calcium silicate perforated ceiling tiles of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 21x21x0.30 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200mm center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge of thickness of tiles as mentioned below:-</p> <p>10.33.1 6 mm thick Sqm 855.00 10.33.2 8 mm thick Sqm 989.00</p>		
10.34	<p>Providing and fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture as per direction of Engineer-in-charge of size 595 X 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.33 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X32mm made out of 0.33mm (Minimum) sheet, 1200mm long spaced between main 'T' at 600mm centre to centre to form a grid of 1200X600mm and secondary cross 'T' of length 600mm and size 24X32mm made out of 0.33 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting...</p>	Sqm	1650.00

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...on periphery walls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick densified edged calcium silicate ceiling tiles of approved texture in the grid including cutting /making opening for services like diffusers, grills, light fitting, fixtures, smoke detectors etc., wherever required, Main ‘T’ runners to be suspended from ceiling using 50 mm long M 6 dash fasteners, 6mm G.I. fully threaded rods with galvnised steel L cleat level adjusters of size 80x25x2mm, spaced at 1200mm centre to centre long main ‘T’ bottom exposed with 24mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawing and as directed by engineer-in-charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs)having area less than 0.30 Sqm. The calcium silicate ceiling tiles shall have NRC.

- 10.35 Providing and fixing tiled false ceiling of approved materials of size 595X595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams per sqm both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24X38 mm made from 0.30 mm thick (minimum) sheet spaced at 1200 mm center to center and cross “T” of size 24X25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200X600 mm and secondary cross “T” of length 600 mm and size 24X25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200X600 mm panel

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to form grids of 600X600 mm and wall angle of size 24X24X0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 X 37 X 25 X 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 X 30 X 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

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|---------|---|-----|---------|
| 10.35.1 | GI Metal Ceiling Lay in Plain Tegular edge Global white colour tiles of size 595X595 mm, and 0.5 mm thick with 8 mm drop, made of G I Sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. | Sqm | 1562.00 |
| 10.35.2 | GI Metal Ceiling Lay in perforated Tegular edge global white colour tiles of size 595x595mm and 0.5 mm thick with 8 mm drop made of GI Sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece. | Sqm | 1690.00 |
| 10.35.3 | 12.5mm thick square edge PVC laminated Gypsum tiles of size 595mm x 595mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edged and the back side metalized polyester film so as to make the tile a completely sealed unit. | Sqm | 1890.00 |

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.35.4	Providing Solid PVC false Ceiling consisting of 600mm x 600mm, 5mm (± 0.25) thick Plain embossed PVC sheet of Density 600 Kg /Cbm Manufactured by an ISO-9001-2015 certified Company, used as panel insert in a frame work made using powder coated aluminum T- section of sizes 1" x1"(25x25mm, 19 gauge or 1mm thick) in square pattern of grid sizes of 2'x2'(600x600mm). The aluminum framework is supported from the ceiling with the help of 'J' hook and G.I. wire / 6mm M.S. rods of required sizes to maintain proper level etc. The aluminum framework is supported on side wall with the use of aluminum L-section of size 1"x1" (25x25mm) angles etc. Complete as per direction of Engineer-In-charge, manufacturer's specification & drawing.	Sqm	1550.00
10.36	Providing & Fixing of Mineral Fibre Anti Bacterial Suspended Ceiling System with (Bevelled Tegular) EDGE TILES WITH 15 mm Exposed GRID. The tiles should have Humidity Resistance (RH) of 95% Light Reflectance 90%, Thermal Conductivity K =0.052-0.057 w/m K, Colour White, Fire Performance UK Class 0/Class 1 (BS 476 Part 6 & 7), in module size of 600 x 600 x 15 mm with Anti Microbial coating on the face of the tile, suitable for Green Building application, with Recycled content of 34 % The tile shall be laid on Silhouette profile grid system with 15 mm white/black flanges incorporating a 6 mm central reveal in white/black colour and with a web height of 45mm and a load carrying capacity of minimum 15.68 Kgs/M2 & minimum pull out strength of 100 kgs. Silhouette, Main Runners & Cross Tees to have mitred ends & "birdsmouth" notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with suspension system of make. The Tile & Grid system used together should carry a 10 year warranty. INSTALLATION :- To comprise main runner spaced at 1200 mm centres securely fixed to the structural soffit using suspension system (Specifications below) at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450 mm from the adjacent wall. Flush fitting 1200 mm long cross tees to be interlocked between main runners at 600 mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600 mm module to be formed by fitting 600 mm long flush fitting cross tees centrally between	Mtr	1717.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

the 1200 mm cross tees. Perimeter trim to be wall angles of size 3000 x 19 x 19mm, secured to walls at 450 mm maximum centres. SUSPENSION SYSTEM accessories consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26x 25x1.2 mm with a Galvanised Thickness of 80 gsm, A pre Straightened Hanger wire of dia-2.5 mm of 1.8 m length., thickness of 80 gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of 0.8 mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner.

- 10.37 Providing & Fixing of Mineral Fibre Acoustical Suspended Ceiling System with (Bevelled Tegular) EDGE TILES WITH 15 mm Exposed GRID. The tiles should have Humidity Resistance (RH) of 99% NRC 0.5, Light Reflectance $>85\%$, Thermal Conductivity $K = 0.052-0.057 \text{ w/m K}$, Colour White, Fire Performance UK Class 0/Class 1 (BS 476 Part 6 & 7), in module size of 600 x 600 x 16 mm, suitable for Green Building application, with Recycled content of 32 %. The tile shall be laid on Silhouette profile grid system with 15 mm white/black flanges incorporating a 6 mm central reveal in white/black colour and with a web height of 45mm and a load carrying capacity of minimum 15.68 Kgs/Sqm minimum pull out strength of 100 kgs. Silhouette, Main Runners & Cross Tees to have mitred ends & "birdsmouth" notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per sqm and need to be installed with suspension system of make. The Tile & Grid system used together should carry a 30 year warranty. INSTALLATION :- To comprise main runner spaced at 1200 mm centres securely fixed to the structural soffit using suspension system (Specifications below) at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450 mm from the adjacent wall. Flush fitting 1200 mm long cross tees to be interlocked between main runners at 600 mm centre to form 1200 x 600 mm module. Cut cross tees longer

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	than 600mm require independent support. 600 x 600 mm module to be formed by fitting 600 mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be wall angles of size 3000 x 19 x 19mm, secured to walls at 450 mm maximum centers. SUSPENSION SYSTEM consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26x 25x1.2 mm with a Galvanised Thickness of 80 gsm, A pre Straightened Hanger wire of dia-2.5 mm of 1.8 m length., thickness of 80 gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of 0.8 mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner.		
10.38	Providing and fixing 300C Aluminium Panel with perforation of 2mm diameter and 5mm centre to centre to give 15% open area with Non woven textile False Ceiling system of approved colour consisting of Panel 300 mm wide X 30 mm deep X 0.7 mm thick with bevelled edges having panel length upto 6 mtrs, Coil Coated on a Continuous Paint Line, Double baked and roll formed for higher strength and good roll forming characteristics. The panel ends will be raised upto 29mm. Panel shall be clipped to a baked enamelled aluminium panel carrier of 41.5mm wide x 62mm deep x 0.95 mm thick in standard length of 5 mtrs. made of double baked stove enamelled aluminium magnesium alloy AA3005 black with cut outs to hold the panels. The Carrier shall be suspended by means of G.I. threaded rod of 6-mm diameter directly fixed to the Carrier. The Carrier tabs to be bent down to secure the panels at all Panel Carrier intersections. The panels will be installed in a module of 300MM. (Tensile strength of suspension-344/413 mpa and fastner strength-110kg) All Ceiling Panels shall adhere to GreenPro Certifications.	Sqm	4745.00
10.39	Providing and fixing of perforated Metal Tile Ceiling System comprising of Tile of 600mm wide and 600mm long manufactured out of 0.7mm thick aluminium alloy 3105 with beveled edge of 4.15mm width height of 32mm. The tiles shall be perforated to 1.5mm dia with open area of 23%. The Tile will be manufactured on advanced includes several leveling stages in the manufacturing process by approved manufacturers. Tile ends will be raised with pips and slopes to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum defl	Sqm	3775.00

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ection across the length of Tile. All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating in white colour. The Tile shall be clpped into clip in rail of 0.5mm thick GI. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid Suspension of 4mm G.I rod, Hold on Clamp with Clip. POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning process and powder applied through electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator .

The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications.

The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8.

(Tensile strength of suspension-344/413 mpa and fastner strength-110kg)

All Ceiling Panels shall adhere to GreenPro Certifications.

- 10.40 Providing and fixing of Un-perforated Metal Tile Ceiling System comprising of Tile of 600mm wide and 600mm long manufactured out of 0.7mm thick aluminium alloy 3105 with beveled edge of 4.15mm width height of 32mm. The Tile will be manufactured on advanced equipment that includes several leveling stages in the manufacturing process by approved manufacturers . Tile ends will be raised with pips and slops to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile. All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating with in white colour. The Tile shall be clpped into clip in rail of 0.5mm thick GI. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid Suspension of 4mm G.I rod, Hold on Clamp with Clip. POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning process and powder applied through electrostatic charged Automatic Carona technology spray guns and cured in

Chapter Code No	Description	Unit	Rate (Rs.)
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The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. (Tensile strength of suspension-344/413 mpa and fastner strength-110kg) All Ceiling Panels shall adhere to GreenPro Certifications.

- 10.41 Providing and fixing of Un perforated Antibacterial Metal Tile Ceiling System comprising of Tile of 600mm wide and 600mm long manufactured out of 0.7mm thick aluminium alloy 3105 with beveled edge of 4.15mm width height of 32mm. The Tile will be manufactured on advanced equipment that includes several leveling stages in the manufacturing process by approved manufacturers. Tile ends will be raised with pips and slopes to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile. All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating with ANTIBAC in white colour which is in compliant to ROHS directive.
- The Tile shall be clpped into clip in rail of 0.5mm thick GI. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid Suspension of 4mm G.I rod, Hold on Clamp with Clip.
- POWDER COATING SPECIFICATION:** Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied through electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator . The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications.
- The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. (Tensile strength of suspension-344/413 mpa and fastner strength-110kg)
- All Ceiling Panels shall adhere to GreenPro Certifications.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.42	<p>Providing and fixing of Perforated Metal Tile Ceiling System comprising of Tile of 600mm wide and 600mm long manufactured out of 0.5mm thick Galvanised Iron with beveled edge of 4.15mm width height of 32mm. The tiles shall be perforated to 1.5mm dia with open area of 23%. The Tile will be manufactured on advanced equipment that includes several leveling stages in the manufacturing process by approved manufacturers. Tile ends will be raised with pips and slopes to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile.</p> <p>All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating in white colour. The Tile shall be clpped into clip in rail of 0.5mm thick GI. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid Suspension of 4mm G.I rod, Hold on Clamp with Clip.</p> <p>POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied thru electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator .</p> <p>The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. (Tensile strength of suspension-344/413 mpa and fastner strength-110kg) All Ceiling Panels shall adhere to GreenPro Certifications.</p>	Sqm	3375.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
10.43	<p>Providing and fixing of Unperforated Metal Tile Ceiling System comprising of Tile of 600mm wide and 600mm long manufactured out of 0.5mm thick Galvanised Iron with beveled edge of 4.15mm width height of 32mm. The tiles shall be plain. The Tile will be manufactured on advanced equipment that includes several leveling stages in the manufacturing process by approved manufacturers. Tile ends will be raised with pips and slopes to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile. All Tiles will be bevel edged. The Tile shall be epoxy polyester powder coating in white colour. The Tile shall be clpped into clip in rail of 0.5mm thick GI. in form of a grid system using a cross connector. The clip in rail shall be supported from slab by means of rigid Suspension of 4mm G.I rod, Hold on Clamp with Clip.</p> <p>POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied through The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. (Tensile strength of suspension-344/413 mpa and fastner strength-110kg) All Ceiling Panels shall adhere to GreenPro Certifications.</p>	Sqm	2544.00
10.44	<p>Supply & Fixing of torsion spring Plank Ceiling System, comprising of Plank of 600mm wide and 1200mm long manufactured out of 0.7mm thick Aluminium Alloy 3105 perforated 1.5mm dia With 22% open area. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel . The Plank will be manufactured on advanced CAD/CAM equipment that includes several levelling stages in the manufacturing process. Torsion Spring panel with two side legs die formed and two end legs die formed and punched to receive torsion springs (min two springs each end or side) for secure engagement into Tee Grid main runners which are factory punched to receive torsion springs. Planks will be square edged. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel.</p>	Sqm	5253.00

Chapter Code No	Description	Unit	Rate (Rs.)
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The Plank shall be Polyester powder coated in desired colour. Main Runners: 24mm deep, inverted “Tee” sections, 3.6m long, with factory punched flanges to receive torsion spring assembly. Main Tee on center spacing to match panel length. Cross Runners: 24 mm deep, inverted “Tee” sections designed to interlock in to web of main tee section on designated spacing. Cross tee length to match panel length. Cross tees are spaced spacing 1200mm on center maximum.

Suspension System:

As per manufacturer standard considering type of plenum and its height. Paint finish –

POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied through electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator . The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8

Acoustic Felt (Optional): Non-woven felt made of glass-reinforced fibre glued over the perforation for sound absorption. NRC- 0.7.

(Tensile strength of suspension-344/413 mpa and fastner strength-110kg)

All Ceiling Panels shall adhere to GreenPro Certifications.

- 10.45 Supply & Fixing of torsion spring Plank Ceiling System, comprising of Plank of 600mm wide and 600mm long manufactured out of 0.7mm thick Aluminium Alloy 3105 perforated 1.5mm dia With 22% open area. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel . The Plank will be manufactured on advanced CAD/CAM equipment that includes several levelling stages in the manufacturing process. Torsion Spring panel with two side legs die formed and two end legs die formed and punched to receive torsion springs (min two springs each end or side) for secure engagement into Tee Grid main runners which are factory punched to receive torsion springs. Planks will be square edged. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel. The Plank shall be Polyester powder coated in desired colour. Main Runners: 24mm deep, inverted “Tee” sections, 3.6m long,

Chapter Code No	Description	Unit	Rate (Rs.)
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with factory punched flanges to receive torsion spring assembly. Main Tee on center spacing to match panel length.

Cross Runners: 24 mm deep, inverted “Tee” sections designed to interlock in to web of main tee section on designated spacing. Cross tee length to match panel length.

Cross tees are spaced spacing 1200mm on center maximum.

Suspension System: As per manufacturer standard considering type of plenum and its height. Paint finish – POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied thru electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator . The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. Acoustic Felt (Optional): Non-woven felt made of glass-reinforced fibre glued over the perforation for sound absorption. NRC- 0.7. (Tensile strength of suspension- 344/413 mpa and fastner strength-110kg)

All Ceiling Panels shall adhere to GreenPro Certifications.

- 10.46 Supply & Fixing of torsion spring Plank Ceiling System, comprising of Plank of 600mm wide and 1200mm long manufactured out of 0.6mm thick GALVANISED IRON perforated 1.5mm dia With 22% open area. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel . The Plank will be manufactured on advanced CAD/CAM equipment that includes several levelling stages in the manufacturing process. Torsion Spring panel with two side legs die formed and two end legs die formed and punched to receive torsion springs (min two springs each end or side) for secure engagement into

Chapter Code No	Description	Unit	Rate (Rs.)
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Tee Grid main runners which are factory punched to receive torsion springs. Planks will be square edged. The metal ceiling panels shall be downward accessible with a minimum of four (4) torsion springs per panel. The Plank shall be Polyester powder coated in desired colour. Main Runners: 24mm deep, inverted "Tee" sections, 3.6m long, with factory punched flanges to receive torsion spring assembly. Main Tee on center spacing to match panel length. Cross Runners: 24 mm deep, inverted "Tee" sections designed to interlock in to web of main tee section on designated spacing. Cross tee length to match panel length. Cross tees are spaced spacing 1200mm on center maximum.

Suspension System: As per manufacturer standard considering type of plenum and its height. Paint finish – POWDER COATING SPECIFICATION: Aluminium PANELS, cleaned through eco friendly cleaning ,process and powder applied thru electrostatic charged Automatic Carona technology spray guns and cured in combination of Infrared & hot air oven in a certified plant as Akzo International approved applicator . The powder is conforming with the performance requirements of the AAMA2603.02 & Qualicoat Claa 1 specifications. The coating thickness will be minimum 60 microns with properties of Salt Spray of 1500 hrs in exposure in SST Cabinet with Minimum blister rating 8. Acoustic Felt (Optional): Non-woven felt made of glass-reinforced fibre glued over the perforation for sound absorption. NRC- 0.7. (Tensile strength of suspension- 344/413 mpa and fastner strength-110kg)

All Ceiling Panels shall adhere to GreenPro Certifications.

10.47	Providing and installation of Poly Carbonate Sheet roofing over existing steel framing as per drawing and design including fixing with non-corrodible nuts and water proof washers as per instruction of Engineer-in-charge.			
(i)	6 mm thick	Sqm	1447.00	
(ii)	10 mm thick	Sqm	1914.00	

CHAPTER : B-11 **FLOORING WORKS**

Chapter Code No	Description	Unit	Rate (Rs.)
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BRICK FLOORING

- 11.1 Brick on edge flooring with bricks of class designation 75 including cement slurry & pointing in CM (1 : 3) etc. complete laid on 20 mm thick bed of :
- | | | |
|---|-----|--------|
| 11.1.1 Cement Sand Mortar 1 : 4 | Sqm | 510.00 |
| 11.1.2 Cement Sand Mortar 1 : 6 | Sqm | 487.00 |
| 11.2 Dry brick on edge flooring in required pattern with bricks of class designation 75 on a bed of 12 mm mud mortar including filling joints with River sand complete. | Sqm | 450.00 |

CEMENT CONCRETE FLOORING

- 11.3 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, making of lines or groove etc complete but excluding the cost of nosing of steps etc. complete.
- | | | |
|---|-----|--------|
| 11.3.1 40mm thick with 20mm thick nominal size aggregate. | Sqm | 277.00 |
| 11.3.2 75mm thick with 20mm thick nominal size aggregate. | Sqm | 458.00 |
| 11.4 Providing and fixing 50mm thick cement concrete flooring with Metallic concrete hardener topping, under layer of 38mm thick cement concrete 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm thick nominal size) and top layer of 12mm thick metallic concrete hardener consisting of mix 1:2 (1 cement : 2 stone aggregate, 6mm nominal size) by volume & mixed with metallic hardening compound of approved quality @ 2Kg./Sqm including cement slurry, rounding off edges etc. but excluding the cost of nosing of step etc. complete. | Sqm | 453.00 |
| 11.5 Cement plaster in skirting and/dado 18 mm thick with cement mortar 1:3 (1 cement : 3 course sand) finished with a floating coat of neat cement including rounding of junctions with floor | Sqm | 284.00 |

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TERRAZZO FLOORING

11.6	40mm thick marble chips flooring rubbed and polished to granolithic finish under layer 31mm thick cement concrete 1:2:4 (1 cement : 2 course sand : 4 graded stone aggregate 12.5mm nominal size) including fixing of dividing strip (excluding the cost of strips) and top layer 9mm thick with marble chips of approved colour & 4mm to 7mm nominal size laid in cement marble chips 2 : 3 (2 cement : 3 marble chips) by volume including cement slurry etc. complete		
11.6.1	Dark shade pigment with ordinary cement.	Sqm	485.00
11.6.2	Light shade pigment with ordinary cement.	Sqm	707.00
11.6.3	Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	539.00
11.6.4	White cement without any pigment.	Sqm	520.00
11.6.5	Light shade pigment with white cement.	Sqm	476.00
11.6.6	Ordinary cement without any pigment.	Sqm	450.00
11.7	40mm thick marble chips flooring rubbed and polished to granolithic finish under layer 28mm thick cement concrete 1:2:4 (1 cement : 2 course sand : 4 graded stone aggregate 12.5mm nominal size) including fixing of dividing strip (excluding the cost of strips) and top layer 12mm thick with marble chips of approved colour 7mm to 10mm nominal size laid in cement marble chips mix by weight in proportion of 2 : 3 (2 cement : 3 marble chips) by volume including cement slurry etc. complete :		
11.7.1	Dark shade pigment with ordinary cement.	Sqm	519.00
11.7.2	Light shade pigment with ordinary cement.	Sqm	597.00
11.7.3	Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	569.00
11.7.4	White cement without any pigment.	Sqm	562.00
11.7.5	Light shade pigment with white cement.	Sqm	586.00
11.7.6	Ordinary cement without any pigment.	Sqm	469.00
11.8	Marble chips skirting/dado rubbed and polished to granolithic finish 6mm thick with white marble chips of approved colour and size from smallest to 4mm nominal size laid in cement marble chips mix in proportion of 4:7(4 cement : 7 marble chips) by volume including fixing of dividing strips (excluding the cost of strips) complete in all respects : 18mm thick with under layer of 12mm thick cement plaster 1:3 (1 cement : 3 coarse sand) :		
11.8.1	Dark shade pigment with ordinary cement.	Sqm	625.00
11.8.2	Light shade pigment with ordinary cement.	Sqm	667.00

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1	2	3	4
11.8.3	Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	649.00
11.8.4	White cement without any pigment.	Sqm	650.00
11.8.5	Light shade pigment with white cement.	Sqm	620.00
11.8.6	Ordinary cement without any pigment.	Sqm	603.00
11.9	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.		
11.9.1	40mm wide and 4mm thick	Mtr.	31.00
11.9.2	20mm wide and 3mm thick for skirting.	Mtr.	17.00
11.10	Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width including cost of forming, nosing etc.	Sqm	26.00
11.11	Extra for terrazzo flooring in narrow band bands not exceeding 7.5cm in width.	Sqm	14.00
11.12	Crazy marble stone flooring 20mm thick marble stone with black or of specified colour topping including filling the gaps with cement marble chips mix in proportion of 4 : 7 (4cement : 7 white black or white or black marble chips) size from 1mm to 4mm by volume and under layer of 25mm thick cement concrete [1:2:4, graded stone aggregate 12.5mm nominal size] rubbing and polishing and cement slurry etc. complete : In ordinary cement.	Sqm	579.00

TILE FLOORING

11.13	Precast terrazo tiles of approved make, 20mm thick with marble chips of size upto 6mm laid in floors, and landing, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete on 20mm thick bed of cement sand mortar 1 : 4.		
11.13.1	Light shade using white cement.	Sqm	542.00
11.13.2	Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	549.00
11.13.3	Dark shade using ordinary cement.	Sqm	473.00
11.13.4	Ordinary cement without any pigment.	Sqm	534.00
11.14	Extra if terrazo tiles are laid in treads of steps not exceeding 30 cm in width.	Sqm	32.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.15	Precast terrazzo tiles of approved make 20mm thick with marble chips of size upto 6mm in skirting & risers, treads of steps and dados 12mm thick cement plaster 1:3 (1 cement : 3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of :		
11.15.1	Light shade using white cement.	Sqm	690.00
11.15.2	Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	681.00
11.15.3	Dark shade using ordinary cement.	Sqm	672.00
11.15.4	Ordinary cement without any pigment.	Sqm	682.00
11.16	Providing & laying Chequered terrazzo tiles of approved make 22mm thick with marble chips of size upto 6mm, in floors, jointed with neat cement slurry mixed wit pigment to match the shade of tiles including rubbing and polishing complete in all respect as per specification, on 28mm thick bed of C.M. 1:4 :		
11.16.1	Light shade using shade cement.	Sqm	684.00
11.16.2	Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	683.00
11.16.3	Dark shade using ordinary cement.	Sqm	618.00
11.16.4	Ordinary cement without any pigment.	Sqm	569.00
11.16.5	Add extra for non slipping 9-12 mm ironite topping tiles	Sqm	10%
11.17	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand)		
11.17.1	Light shade using shade cement.	Sqm	571.00
11.17.2	Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	673.00
11.17.3	Dark shade using ordinary cement.	Sqm	523.00
11.17.4	Ordinary cement without any pigment.	Sqm	473.00
11.17.5	Add Extra for polished chequerred precast cement concrete tiles over item No. 11.17.1, 11.17.2, 11.17.3, 11.17.4		10%

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

KOTA STONE FLOORING

- 11.18 Kota stone slab flooring 25 mm thick over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)
- 11.18.1 For area of each slab from 901 to 2000 Sq.Cm : Sqm 950.00
- 11.18.2 For area of each slab from 2001 to 5000 Sq.Cm Sqm 1023.00
- 11.19 Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete
- 11.19.1 For area of each slab upto 2001 Sqcm Sqm 912.00
- 11.19.2 For area of each slab from 2001 to 5000 Sqcm Sqm 1002.00
- 11.20 Rough Chisel dressed Kota stone 35 mm thick flooring of approved shade set in pattern over 20mm thick base of cement mortar 1:6 (1 cement : 6 coarse sand) and pointing with cement sand mortar 1:3 with pigment to match the shade of stone with joint thickness up to 15 mm complete in all respects :

SAND STONE FLOORING

- 11.21 Rough Chisel dressed Sand stone 35 mm thick flooring of approved shade set over 20mm thick base of cement mortar 1:6 (1 cement : 6 coarse sand) and pointing with cement sand mortar 1:3 with pigment to match the shade of stone with joint thickness up to 15 mm complete in all respects :
- 11.21.1 Red sand stone (Karauli stone) Sqm 619.00
- 11.21.2 Pink sand stone (Bansi Paharpur stone) Sqm 653.00
- 11.21.3 Mandana stone Sqm 653.00
- 11.22 Fine dressed & machine cut edges 30-35 mm thick sand stone flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design drawing and instruction of EI.
- 11.22.1 Red sand stone (Karauli stone) Sqm 773.00
- 11.22.2 Pink sand stone (Bansi Paharpur stone) Sqm 883.00
- 11.22.3 Mandana stone Sqm 883.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.23	Fine grinded Gangsaw cut 30-35 mm thick stone flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement :4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design drawing and instruction of EI.		
11.23.1	Red sand stone (Karauli stone)	Sqm	825.00
11.23.2	Pink sand stone (Bansi Paharpur stone)	Sqm	937.00
11.23.3	Mandana stone	Sqm	937.00
11.24	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Sqm	72.00
11.25	Extra for Mirror polishing on terrazzo/Kota stone work where ever required to give high gloss finish complete.	Sqm	121.00
11.26	Random rubble dry stone Kharanja under floor.	Cum	932.00
11.27	Filling of sunk portion of roof with earthen pots of required height including filling voids with 1:3:6 light concrete, using brick bats complete levelling and dressing the surface by 50mm thick cement concrete 1:2:4 as per specification.	Cum	1775.00
11.28	Providing and fixing designer cement concrete polished tiles over 20mm average thick base of CM 1 :4 (1 Cement : 4 sand) jointing with cement mortar 1 :2 (1cement : 2 sand) with pigment to match the shade of the tiles having minimum thickness of 25mm complete with all respect. (as per IS 1237:2012)	Sqm	1180.00
11.29	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) including making joints with without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete including painting etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineerin- charge).	Cum	6103.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.30	Providing and laying M30 grade controlled cement concrete pavements including mixing and vibrations concrete with necessary needle vibrators and surface with screed board vibrating complete in all respect with 20/25 mm stone aggregate (crusher broken) including anti-skid textured finish to required camber/ super elevation and grade including curing etc. as per specification with cement concrete M-30 grade including cost of Steel frame work for sides of C.C. pavement consisting of M. S. channels flats and angles with required steel pegs (some of them may left embedded in concrete/ including providing frame work)	Cum	5514.00
11.31	Extra for vacuum processed concrete including cost of equipments labour etc.	Sqm..	101.00
11.32	Cutting of construction joint/ longitudinal joint 4 to 6 mm. wide using mechanical concrete cutter including cost of diamond bit cutting wheel and filling of bitumen sealing compound in groove including cost of sealing compound.		
11.32.1	25 mm depth	P Mtr.	46.00
11.32.2	50 mm depth	P Mtr.	94.00
11.32.3	75 mm depth	P Mtr.	140.00
11.32.4	100 mm depth	P Mtr.	187.00

WOODEN FLOORING

11.33	25mm thick wooden planking, tongued and grooved in flooring including fixing with iron screws complete (Lower frame to be paid extra) with :First class Teak wood.	Sqm	2973.00
11.34	Providing and laying wooden flooring with a direct laminated surface treated with aluminum oxide on top of a high-density fiber board with a density of 850 Kg./per Mtr. having a click system tongue and groove joint to secure a long lasting joint. The planks are or termite resistant and water protected with both side lamination Wooden flooring Planks of size 1208 x 194 x 8 mm / 1215x294x8 mm (8mm thick laminated floor class of use 23/31 having a wear resistance level of AC-3 , impact resistance > 9mm, moisture resistance 3-10% as per (EN-424, EN – 438 EN – 425 EN – 417 – 2)or PREN 3329 complete in all respect as per direction of EI	Sqm	2311.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.35	Providing and laying of skirting 89 mm wide having both side laminations with moulding in upper side with matching of floor fixing with nails and screws & fevicol complete in all respect as per direction of EI.	Rm	979.00
11.36	Providing and laying transaction/adaptation profile with fixing of nails, screws & fevicol complete in all respect as per direction of EI.	Rm	906.00

PVC FLOORING

11.37	Providing and Fixing Cushion Vinyl/Fully flexible Vinyl Flooring confirming to I.S.-3462 Flooring of approved make with fibre base using rubber base adhesives including rolling with light wooden roller complete :		
11.37.1	1.0 mm thick.	Sqm	760.00
11.37.2	1.5 mm thick.	Sqm	867.00
11.37.3	2.0 mm thick.	Sqm	990.00

Paver Block

11.38	Providing and laying of paver block as per IS 15658 : 2006 (Indian standard for precast concrete block for paving-specification) and IRC : SP:63-2004 (guidelines for the use of interlocking concrete block pavement)		
11.38.1	M-30, 60 mm thick to be used in non traffic areas like building premises, monument premises, land scapes, public gardens/park, domestic drives, paths and patios, Embankment slopes, sand stabilization Area etc.(As per table 1 of IS 15658:2006		
(A)	Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	Sqm	816.00
(B)	Category ‘B’ Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	Sqm	786.00
(C)	Category ‘C’not denated on any it’s faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	Sqm	736.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.38.2	M-35,60mm thick to be used in light traffic (Light traffic is defined as a daily traffic up to 150 commercial vehicles exceeding 30 KN laden weight, or an equivalent up to 0.5 million standard axles (MSA) for a design life of 20 years (A standard axle is defined as a single axle load of 81.6 KN) like pedestrian plazas, shopping complexes ramps, car parks, office driveways , housing colonies, office complexes, rural roads with low volume traffic, farm houses , beach sites, tourist resorts, local authority footways, residential roads, etc.		
(A)	Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	Sqm	961.00
(B)	Category ‘B’ Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	Sqm	933.00
(C)	Category ‘C’not denated on any it’s faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	Sqm	850.00
11.38.3	M-40,80mm thick to be used in medium- traffic (Medium traffic is defined as a daily traffic of 150-450 commercial vehicles exceeding 30 KN laden weight, or an equivalent of 0.5 to 2.0 MSA for a design life of 20 years.) like city streets, small and medium market roads, low volume roads, utility cuts on arterial roads, etc		
(A)	Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	Sqm	1089.00
(B)	Category ‘B’ Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	Sqm	1060.00
(C)	Category ‘C’not denated on any it’s faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	Sqm	1003.00
11.38.4	M-50 100mm thick to be used in heavy-traffic (Heavy traffic is defined as a daily traffic of 450-1500 commercial vehicles exceeding 30 KN laden weight, or an equivalent of 2.0 to 5.0 MSA for a design life of 20 years.) like Bus terminals, industrial complexes, mandi houses roads on expansive soils, factory floor , service station, industrial pavements.etc.		
(A)	Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	Sqm	1311.00
(B)	Category ‘B’ Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	Sqm	1282.00
(C)	Category ‘C’not denated on any it’s faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	Sqm	1224.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.38.5	M-55 120mm thick to be used in very heavy-traffic (very heavy-traffic is defined as a daily traffic of more than 1500 commercial vehicle exceeding 30 KN laden weight, or an equivalent of more than 5.0 MSA for a design life of 20 years.) like container terminals, ports, block yards, mine access roads, bulk cargo handling areas, airport pavements, etc.		
(A)	Category A Denated units to key into each other on four faces zigzag shape as per IRC SP 63:2004	Sqm	1521.00
(B)	Category ‘B’ Denated only two side like I,Z,T shape etc. as per IRC SP 63:2004	Sqm	1492.00
(C)	Category ‘C’not denated on any it’s faces like Hexagon, Rectangular, square shape as per IRC SP 63:2004	Sqm	1434.00
11.39	Add extra over item No. 11.38, A to C if reflective paver block, manufactured with wet cast vibration system in two layers is used.	Sqm	10%
11.40	Add extra over rates of item No. 11.38, A to C if colored paver blocks are used	Sqm	20%
11.41	Providing and fixing 25 mm thick Non slippery reflective type designer paving tile with metallic hardening using 2 Kg/sq.mtr made out of cement concrete of required grade, sizes of tile upto 300X300 mm Manufactured with wet cast Vibration system in two layers and laid over base of 20 mm thick cement morter1:4 using neat cement slurry in cluding finishing of joints etc. complete.		
(A)	Using M-40 grade cement Concrete	Sqm	1509.00
(B)	Using M-30 grade cement Concrete	Sqm	1368.00
11.42	Add extra over 11.41, A & B if coloured wearing course (as per IS 1237:1980) is used.	Sqm	20%
11.43	25mm thick fine dressed and machine grinded surface stone flooring over 20mm (av.) thick base in cement in CM 1:6 with joints finished flush with:		
11.43.1	Red sand stone	Sqm	513.00
11.43.2	White sand stone	Sqm	624.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
11.44	Providing & Laying Tactile tile (for vision impaired persons is standard of size 300x300x20mm and confirming to IS 1231 of 1980 (Re affirmed in 2006) in all colours & sheds further product should confirm ASTM 303 for shad resistance and DIN51099 for colour fastness etc. laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 course sand) in all shapes & patterns including grouting the joint which white cement mixer) will matching pigments etc complete is per direction of Engineer-in-charges. Grade M 30	Sqm	1284.00

CHAPTER : B-12

FINISHING WORK

Note :

- 1 The rates are for complete work including racking of joints, curing, grinding, mixing and finishing T & P and scaffolding material and cost of material with all lead and lift
- 2 The rates cover protection of all places and things, requiring protection and cleaning such places and thing of all droppings and splashes of mortar etc.
- 3 The Rate for external plaster are for height up to 10 m from ground level unless otherwise stated.
- 4 Cement mortar is to be made by mechanical mixer only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CEMENT PLASTER

12.1	Plaster on new surface on wall in cement sand mortar 1:3 including racking of joints etc. complete fine finish :		
12.1.1	25 mm thick	Sqm.	242.00
12.1.2	20mm thick	Sqm	211.00
12.1.3	12mm thick	Sqm	164.00
12.2	Plaster on new surface on walls in cement sand mortar 1:4 including racking of joints etc. complete fine finish :		
12.2.1	25 mm thick.	Sqm	227.00
12.2.2	20mm thick .	Sqm	202.00
12.2.3	12mm thick .	Sqm	163.00
12.3	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish :		
12.3.1	25 mm thick	Sqm	211.00
12.3.2	20mm thick.	Sqm	190.00
12.3.3	12mm thick.	Sqm	160.00
12.4	Plaster on new surface on walls in cement sand mortar 1:8 including racking of joint etc. complete fine finish :		
12.4.1	25mm thick.	Sqm	176.00
12.4.2	20mm thick.	Sqm	164.00
12.4.3	12mm thick.	Sqm	140.00
12.5	6 mm thick cement plaster to ceiling of mix 1:3 (1cement : 3-fine sand)	Sqm.	139.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 12.6 6mm thick cement plaster 1:3 (1cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C slabs and beams.
- 12.7 Finishing with neat cement (punning). Sqm 36.00
- 12.8 Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. Kg. 42.00

ROUGH CAST PLASTER

- 12.9 Rough cast plaster upto 10m height above ground level with a mixture of sand and gravel or crushed stone from 6mm to 10mm nominal size dashed over and including the fresh plaster in two layers, under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.
Ordinary cement finish using ordinary cement Sqm 340.00
- 12.10 Pebble dash plaster upto 10m height above ground level with a mixture of washed pebble or crushed stone 6mm to 12.5mm nominal size dashed over and including fresh plaster in two layers under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) with 10% finely grounded hydrated lime by volume of cement Sqm 323.00
- 12.11 Washed stone grit plaster on exterior walls of height upto 10 M. above level in two layers, under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2kg of cement per sqm, top layer 15 mm cement plaster 1:1/2:2 (1 cement : 1/2 coarse sand : 2 stone chipping size 10 mm nominal size) in panel with groove all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chipping, complete as per specification and direction of Engineer in charge. (Payment for providing grooves shall be made separately) Sqm 510.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.12	Forming groove of uniform size 15x15mm and upto 25x15mm in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specification and direction of Engineer in charge	Rm	25.00
12.13	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	Sqm	36.00
12.14	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	34.00
12.15	Extra for plastering on circular work not exceeding 6 m in radius:	Sqm	15.00
12.16	Extra for plastering done on moulding cornices or architraves including neat finish to line and level:		
12.16.1	In one coat	Sqm	210.00
12.16.2	In two coats	Sqm	348.00
12.17	Extra for plastering :		
12.17.1	Spherical ceiling	Sqm	64.00
12.17.2	Groined ceiling	Sqm	70.00
12.17.3	Flewng soffits	Sqm	42.00
12.18	Extra for lining out plaster to imitate stone or concrete blocks walling	Sqm	34.00
12.19	Making grooves as per design in plaster 10mm to 20mm wide.	Rm	7.00
12.20	Making of drip course (Tapka) in cement sand mortar 1:6 width upto 40 mm and 10 mm thick as per approved design	Rm	11.00
12.21	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) :		
12.21.1	Flush band.	Cm P Rm	3.00
12.21.2	Sunk band.	Cm P Rm	3.00
12.21.3	Raised Band	Cm P Rm	3.00
12.21.4	Moulded band.	Cm P Rm	5.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.22	Providing and applying white cement based putty over plastered surface to prepare the surface even and smooth complete		
12.22.1	New Plastered Surface (three or more coats)	Sqm	84.00
12.22.2	Old Plastered Surface (two or more coats)	Sqm	46.00
12.23	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	69.00
12.24	Providing & Laying POP moulding & beading in ceiling including nailing & scaffolding etc. complete of size :		
12.24.1	25mm x 12mm	Rm	61.00
12.24.2	25mm x 25 mm	Rm	72.00
12.25	Providing & Laying POP Cornice of required design & pattern in ceiling including nailing & scaffolding etc. complete with fine finishing of size:		
12.25.1	50mm x 50mm	Rm	112.00
12.25.2	65mm x 65mm	Rm	124.00
12.25.3	75mm x 75mm	Rm	146.00
12.26	Lime plaster (up to 40 mm thick in 3 Coats) on new surface on walls with lime sand mortar 1:2 (1 lime putty : 2 sand) using admixture like Gur, Methi & Gugal @ 1.0 Kg./each for every 10 Sqm of area including racking of joints curing etc. complete	Sqm	353.00
12.27	Coloured Araish work 1 : 2 (1-lime putty : 2-Zikki) over lime plaster or plain back ground including preparation of lime for 6 months by slaking of lime with curd and changing the water every week. The kara plaster of not more than 6 mm thick is to be left for maximum of 3 months to appear the shrinkage & temperature cracks over the kara plaster 2 mm layer of grinded lime putty is to be done and is to be rubbed gently by Akik stone then inserting the design of colour border/ flowers/pictures etc including desired colour stone pigment to match the existing design/pattern after this, applying Khopra paste & rubbing with cloth to give a uniform picture. The work to be executed strict as per direction of Engineer Incharge	Sqm	3681.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 12.28 Yellow/pink colour wash with Khameera mixed with pigment including making gola garden, Kangoora and ornamental lining work as per approved Jaipur style and pattern complete in all respect as per direction of Engineer in Charge
- 12.28.1 On New Surface (3 coats) Sqm 88.00
- 12.28.2 On old Surface (3 coats) Sqm 48.00
- 12.29 Extra for making Ornamental design like Kangooras Gola etc. as per Jaipur practice in cement plaster Sqm 50%

POINTING

- 12.30 Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) :
- 12.30.1 Flush / Ruled/ Struck or weathered pointing. Sqm 80.00
- 12.30.2 Raised and cut pointing Sqm 133.00
- 12.31 Pointing on stone masonry in cement sand mortar 1:3 (1 cement : 3 sand) :
- 12.31.1 Flush / Ruled/ Struck or weathered pointing. Sqm 124.00
- 12.31.2 Raised and cut pointing. Sqm 233.00
- 12.31.3 Deep groove pointing Sqm 220.00
- 12.32 Pointing on stone slab ceiling with cement mortar 1:2 (1 cement : 2 fine sand): Sqm 78.00
- Flush/ Ruled pointing
- 12.33 Extra for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 3 m or part there of. Sqm 4.00

INTERIOR FINISHING

- 12.34 White washing with lime to give an even shade including all scaffolding:
- 12.34.1 New work (three or more coats). Sqm 11.00
- 12.34.2 Old work (two or more coats) including scrapping old surface and repairing with whiting where ever necessary. Sqm 6.00
- 12.34.3 Old work (one or more coats) including scrapping old surface and repairing with putty where ever necessary. Sqm 3.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.35	Colour washing of all shades to give an even shade including all scaffolding :		
12.35.1	New work (two or more coats) with a base coat of white washing with lime.	Sqm	14.00
12.35.2	New work (two or more coats) with a base coat of whiting.	Sqm	15.00
12.35.3	Old work (one or more coats) with whiting with a base coat of white washing including scrapping old surface.	Sqm	7.00
12.35.4	Old work (two or more coats) with whiting with a base coat of white washing including scrapping surface.	Sqm	6.00
12.35.5	Old work (one or more coats) with lime including scrapping surface.	Sqm	4.00
12.35.6	Old work (one or more coats) with whiting including scrapping surface.	Sqm	4.00
12.35.7	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches by sandla/loi. (only for colour changing).	Sqm	4.00
12.36	Distempering with dry distemper of approved brand and shade (two or more coats) and of required shade on new work, over and including, priming coat of whiting to give an even shade including all scaffolding.	Sqm	53.00
12.37	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade including all scaffolding:		
12.37.1	New work (two or more coats) over and including scrapping and priming coat with cement primer.	Sqm	75.00
12.37.2	Old work (one or more coats) including scrapping surface and necessary repairs.		
(a)	Colour Change	Sqm	15.00
(b)	Same colour	Sqm	11.00
12.37.3	Removing dry or oil bound distemper by scrapping sand papering and preparing surface smooth including necessary repairs to scratches by sandla/loi and all scaffolding (for colour changing only)	Sqm	4.00
12.38	Distempering with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete including all scaffolding as per manufacturer's specification. Two or more coats on new work including preparation of base with primer, putty, lippy etc complete in all respect.	Sqm	43.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 12.39 Applying one coat of Cement primer of approved brand and manufacture on wall surface including all scaffolding: Sqm 14.00
- 12.40 Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including all scaffolding:
- 12.40.1 Two or more coats on new work including preparation of base with primer, putty, lippy etc complete in all respect. Sqm 80.00
- 12.40.2 Old work (One or more coats) Sqm 40.00

EXTERIOR FINISHING

- 12.41 Finishing wall with water proofing cement paint of approved brand and manufacture and or required shade to give an even shade including all scaffolding: Sqm 80.00
- 12.41.1 New work (Two or more coats applied @ 3.84 kg/10 sqm). Sqm 53.00
- 12.41.2 Old work (One or more coats). Sqm 20.00
- 12.42 Finishing walls with Acrylic Smooth exterior paint of required shade including all scaffolding. Sqm 86.00
 New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).
- 12.43 Painting exterior surface of Wall with 100% acrylic exterior paint of approved brand and manufacture to give an even shade with two or more coats including preparation of base with sand papering, primer, putty, etc complete in all respect **including scaffolding and safety provision** Sqm 123.00
- 12.43.1 New Work Sqm 123.00
- 12.43.2 Old Work Sqm 50.00
- 12.44 Finishing walls with textured exterior paint of required shade as per approved colour complete as per manufacturers specifications including primer coat and protecting coat **including scaffolding and safety provision** Sqm 347.00
- 12.44.1 Roller Finish av. thickness 400 to 500 microns. Sqm 171.00
- 12.44.2 Trowel Finish av. thickness 1000 to 1200 microns. Sqm 347.00
- 12.44.3 Trowel Finish av. thickness 1500 to 2000 microns. Sqm 404.00
- 12.44.4 Trowel Finish av. thickness 2000 to 2500 microns. Sqm 473.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

PAINTING

12.45	Applying priming coat :		
12.45.1	With ready mix pink or gray primer of approved brand and manufacture on wood work hard and soft wood.	Sqm	29.00
12.45.2	With ready mix Aluminium primer of approved brand and manufacture on resinous wood and plywood.	Sqm	29.00
12.45.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	Sqm	23.00
12.45.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	12.00
12.46	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :		
12.46.1	Two or more coats on new work	Sqm	69.00
12.46.2	One or more coats on old work.	Sqm	34.00
12.47	Varnishing with varnish of approved brand and manufacture :		
12.47.1	Two or more coats glue sizing with copal varnish over an under coat of flatting varnish.	Sqm	89.00
12.47.2	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish.	Sqm	94.00
12.48	French sprit polishing :		
12.48.1	Two or more coats on new work including a coat of wood filler.	Sqm	167.00
12.48.2	One or more coats on old work.	Sqm	57.00
12.49	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :		
12.49.1	New Work	Sqm	69.00
12.49.2	Old Work.	Sqm	29.00
12.50	Providing and applying Melamine polish on teak wood work of approved brand and manufacture to give an even shade with two or more coats by compressor including sand papering, wood filler coat etc complete in all respect:		
12.50.1	New Surface	Sqm	887.00
12.50.2	Old Surface	Sqm	606.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.51	Painting one thin coat with white lead of approved brand and manufacture on wet or patchy portion of plastered surfaces.	Sqm	36.00
12.52	Painting (two or more coats) on rain water soil, waste and vent pipes and fitting with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :		
12.52.1	75mm dia. Pipes.	Mtr.	17.00
12.52.2	100mm dia. Pipes	Mtr.	26.00
12.52.3	150mm dia. Pipes.	Mtr.	40.00
12.53	Painting (one or more coats) on rain water soil, waste and vent pipes and fitting with black anticorrosive bitumastic paint of approved brand and manufacture on old work :		
12.53.1	50mm dia. Pipes.	Mtr.	3.00
12.53.2	75mm dia. Pipes.	Mtr.	5.00
12.53.3	100mm dia. Pipes	Mtr.	7.00
12.53.4	150mm dia. Pipes.	Mtr.	10.00
12.54	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.		
12.54.1	75mm dia. Pipes.	Mtr.	17.00
12.54.2	100mm dia. Pipes	Mtr.	29.00
12.54.3	150mm dia. Pipes.	Mtr.	40.00
12.55	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on old work.		
12.55.1	50mm dia. Pipes.	Mtr.	3.00
12.55.2	75mm dia. Pipes.	Mtr.	5.00
12.55.3	100mm dia. Pipes	Mtr.	7.00
12.55.4	150mm dia. Pipes.	Mtr.	8.00
12.56	Painting with oil type wood preservative of approved brand and manufacture :		
12.56.1	New work (Two or more coats).	Sqm	21.00
12.56.2	Old work (One or more coats).	Sqm	11.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.57	Providing and applying two coats of fire retardant paint unthinned on cleaned wood/ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	353.00
12.58	Coal-tarring coats on new work using 0.16 and 0.12 litre of coal tar per Sqm in the first and second coat respectively.	Sqm	23.00
12.59	Painting with Aluminium paint of approved brand and manufacture to give an even shade :		
12.59.1	Two or more coats on new work.	Sqm	53.00
12.59.2	One or more coats on old work.	Sqm	17.00
12.60	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :		
12.60.1	Two or more coats on new work .	Sqm	54.00
12.60.2	One or more coat on old work .	Sqm	26.00
12.61	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :		
12.61.1	Two or more coats on new work.	Sqm	47.00
12.61.2	One or more coat on old work.	Sqm	19.00
12.62	Lettering with black Japan paint of approved brand and manufacture.	P. Letter Per cm. height	2.00
12.63	Re-lettering with black Japan paint of approved brand and manufacture.	P. Letter Per cm. height	1.00
12.64	Providing and applying superior quality emulsion for wall painting with Velvet touch/Royal paint etc of approved brand and manufacture to give an even shade with putty and preparation of surface applying with the help of paint roller the work complete in all respect as per direction of Engineer-in-charge.		
12.64.1	New Work Three or More coat	Sqm	246.00
12.64.2	Old Work Analysis	Sqm	162.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
12.65	Spray painting in approved shade and approved quality with Duco paint of required colour to give even shade with two or more coats by compressor including sand papering, NC putty filler coat etc complete in all respect as per design given by Engineer incharge on new work.	Sqm	1859.00
12.66	Providing and applying P.U. paint of apporved brand and manufature to even shade. Two or more coats on New works.	Sqm	304.00
12.67	Wall painting with Royal Play paint with various types of designs as approved of approved brand and manufacture to give an even shade including all scaffalding. Two or more coats on New work including preparation of base with primer, putty lippy etc. Complete in all respect.	Sqm	365.00
12.68	Lining work on Yellow & Pink Exterior Paint/ Colour wash including making Gola, Gardana, Kangoora and Orgnamental lining work as per approved style and pattern complete in all respect with Exterior (White/Brown) paint as required complete in all respect as per direction givin by Engineer in charge.	Sqm	43.00
12.69	Face lifting (Doba Wash) with washing of stones by (1:20) acid & water solution, rubbing by brush, washing by clear water, pointing of damaged grooves & doba washing with good quality lime water and painting of doors, windows, ventilators upto all height & lead including all scaffolding and T&P etc. complete as per instructions and direction of Engineer-in-charge.	Sqm	73.00

CHAPTER : B-13

REPAIRS TO BUILDING

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
13.1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 m lead With cement mortar 1 :4 (1 cement : 4 coarse sand)	Sqm	235.00
13.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) painting two coats of coal tar to sides of chaukhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 metres lead.		
13.2.1	Door chowkhats	Each	615.00
13.2.2	Window chowkhats	Each	383.00
13.2.3	Clerestory window chowkhats	Each	271.00
13.3	Making the opening in masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground. For door/windows/clerestory windows	Sqm	447.00
13.4	Renewing glass panes,with putty and nails wherever necessary		
13.4.1	Float glass panes of thickness 4 mm	Sqm	617.00
13.4.2	Float glass panes of thickness 5 mm	Sqm	763.00
13.5	Renewing glass panes with wooden fillets wherever necessary :		
13.5.1	4mm thick plain glass panes.	Sqm	765.00
13.5.2	5mm thick plain glass panes.	Sqm	912.00
13.6	Renewing glass panes and refixing existing wooden fillets :		
13.6.1	4mm thick plain glass panes.	Sqm	636.00
13.6.2	5mm thick plain glass panes.	Sqm	780.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
13.7	Supplying and fixing new wooden fillets wherever necessary: 2nd class teak wood fillets	Rm	29.00
13.8	Renewal of old putty of glass panes (length)	Rm	18.00
13.9	Refixing old glass panes with putty and nails	Sqm	213.00
13.10	Fixing old glass panes with wooden fillets (Excluding cost of fillets)	Sqm	176.00
13.11	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase and making good and painting exposed portion of the clamps complete.	Each	215.00
13.12	Repair to stone masonry in cement sand mortar 1:6 with old and new stone.	Sqm	318.00
13.13	Repair to brick masonry in cement sand mortar 1:6 with new brick.	Sqm	354.00
13.14	Cement plaster 1:3 under old stone slabs with admixture (gur,nails,binding wire to mesh and scraping scales & dressing joints of slabs complete.		
13.14.1	Proofing upto 25 mm thickness.	Sqm	288.00
13.14.2	Proofing above 25 mm thickness& upto 60 mm thickness	Sqm	459.00
13.15	Patch repair to cement concrete floor including digging out old floor in regular shape and removal of rubbish curing etc. complete in all respects.	Sqm	317.00
13.16	Washing floor with soda, soap or other cleaning material.	Sqm	1.00
13.17	Removal and refixing stone chhajja 50 to 75 mm thick including finishing, complete in all respects.	Sqm	185.00
13.18	Replacing broken roofing slab in patches including lime terrace, ceiling plaster etc. including removal of broken slabs.	Sqm	1844.00
13.19	Making holes in stone masonry wall upto 450 mm x 450 mm size and making good in CM 1:6.	Each	182.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
13.20	Grinding of existing floor with		
13.20.1	60, 80, 120 and 360 No. Carborundum stone including cost of wax polishing complete :	Sqm	69.00
13.20.2	120 and 360 No. Carborundum stone including cost of wax polishing complete :	Sqm	43.00
13.21	Add extra for mirror polishing on existing marble work/ Kota stone flooring work where ever required to give high gloss finish complete.	Sqm	121.00
13.22	Providing and fixing double scaffolding system on the exterior side, upto five story made with 4" wooden member 1.5 m c/c horizontal and vertical direction joining with rassi, clamps, challies. The scaffolding system shall be stiffened with bracing, runner, connection of building if necessary with all essential safty features for the workmen etc complete as per direction of EI. The lavation area of the scaffolding shall be measured for payment. The payment will be made once irrespective of duration of scaffolding.	Sqm.	162.00
Note : This item to be used for maintence work judicially			
13.23	Repair of existing steel glazed doors, windows and ventilator, MS sheet door, garge doors, compound wall gates etc. by welding drilling complete include. Cost of welding rods and hire charge of welding meachine and TP etc complete	Sqm.	332.00
13.24	Labour charges for repair to door / window without using any material such as applying randha (finishing) tightening of bolts & screw etc.	Sqm.	220.00
13.25	L/C for fixing of GI/AC sheet include. Cutting jhiri and repair , cutting of sheet , fixing of sheet with J or L hook and bitumen washer as per direction of EI	Sqm.	256.00
13.26	Repair of rolling shutter with replacement of shutter spring incl. removal of old spring in the existing rolling shutter incld. Cost of new spring	Each	866.00
13.27	Repair of rolling shutter with using any material such as bend repair , tightening of spring,bolt and screw etc complete	Each	606.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
13.28	Refebriation work with existing steel work including cutting, welding & refebriation as per requirement with fixing at site complete as per direction of Engineer In charge	Kg	34.00
13.29	Repair to damaged RCC slabs, beams and columns etc for strengthening with cement mortar 1 : 2 in following steps :- (i) Choping losse and cracked concrete to required depth, cleaning the exposed surface of steel and concrete with wire brush and sand papering , cleaning of concrete surface with water as necessary and getting dried. (ii) Applying Epoxy primer on the exposed steel bars. (iii) Applying Epoxy hardener and resin mix (as per manufactured's specification) on concrete and steel bars with brush. (iv) Speading dry cement mortar 1 : 2 mix over epoxy treated wet surface and allow it to dry for one day. (v) Plastering the surface with cement sand mortar 1 : 3 upto depth of 30mm complete. (vi) Cure the plastered surface for 15 days, All work including scaffolding etc. complete in all respect.	Sqm	1568.00
13.30	Replacement of stone Chajja with sriwan in damaged portion as per existing thickness and width in CM 1 : 3 with removal of old damaged pieces of chajja including top plaster of chajja and bottom pointing in CM 1 : 3 with scoffolding upto Ground floor level as per direction of Engineer in charge	Sqm	2820.00
13.30.1	Add Extra for each additional floor	Sqm	264.00
13.31	Repair to damaged cement plaster of stone chajja with CM 1 : 3 of required thickness on top & bottom as per existing pattern and making patta etc complete up to three floor level as per direction of Engineer in charge including all necessary scoffolding etc	Sqm	633.00
13.32	Mechanised cleaning of storage tanks comprises of following 6 stage as mentioned below : (i) Mechanical dewatering (ii) Desalting removal of leftover dirty water and sludge with sludge pump (iii) Cleaning of wall, ceiling and floor by high pressure water jet with help of equipments which creates a pressure of 100-150 bar (iv) Removal of remaing sludge from floor with the help of industrial vacum cleaner.		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
(v)	Spraying of non toxic, bio degradable ecofriendly and bacterial agent certified by a govt approved laboratory to disinfect the tank from all harmfull pathogens. The dose should be safe as per the UECD guidelines & 23 adopted on 17 th december 2001.		
(vi)	Treatment of inside tank by exposing UV radiation to kill further suspended or floating bacteria if any		
13.32.1	Upto 500 ltr.	Ltr.	0.40
13.32.2	Above 500 ltr. to 1000 Ltr.	Ltr.	0.35
13.32.3	Above 1000 ltr.	Ltr.	0.30
13.33	Repair of door, window shutters including cost of material and labour for change of damaged :		
(a)	Style / rail of teak wood 30mm thick/ Aluminium Section		
(i)	4"wide	Rmt.	266.00
(ii)	6" wide	Rmt.	367.00
(b)	Panel by		
(i)	Shuttering Ply - 9mm thick (Commercial)	Sqm.	598.00
(ii)	Wire Gauge 14 mesh x 24 gauge	Sqm.	534.00
(iii)	Plain Glass Panes 4mm thick	Sqm.	431.00
(c)	Aldrop of mild Steel		
(i)	12" long x12mm dia	Each	147.00
(ii)	8" long x 10mm dia	Each	106.00
(d)	Stopper of Aluminium with		
(i)	Single Rubber Gutka	Each	33.00
(ii)	Double Rubber Gutka	Each	47.00
(e)	Door Springs of mild Steel	Each	160.00
(f)	Steel Hinges		
(i)	For Wooden Chowkhat 3" size.	Each	24.00
(ii)	For Wooden Chowkhat 4" size	Each	34.00
(iii)	For Stone Chowkhat ,4"size	Each	29.00
(g)	Mild Steel Tower Bolt 6" long	Each	39.00
(h)	Steel Locking Bolt	Each	53.00
(i)	Steel Handle 6" size	Each	24.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

13.34	Making of hole in R.C.C. slab/wall/beams and masonry wall (width up to 450 mm) by core cutting machine complete as per direction of EI		
13.34.1	From diameter 100mm to 150mm	Nos	1107.00
13.34.2	Diameter above 150mm	Nos	1663.00

CHAPTER : B-14

DISMANTLING & DEMOLISHING WORK

Note : All items of demolition & dismantling of building shall be conform to IS 4130 for handling , IS 7969 for storage and IS 3696 for scaffolding

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer-in-charge.	Cum	254.00
14.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.		
14.2.1	1: 3: 6 or richer mix.	Cum	637.00
14.2.2	1: 4: 8 or leaner mix.	Cum	393.00
14.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	Cum	930.00
14.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	Cum	832.00
14.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge	Sqm	317.00
14.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work	Kg	2.00
14.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
14.7.1	In mud mortar.	Cum	185.00
14.7.2	In lime mortar.	Cum	221.00
14.7.3	In cement mortar.	Cum	538.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 meters (stacks of cleaned bricks shall be measured):		
14.8.1	From bricks work in mud mortar.	1000 Nos.	1247.00
14.8.2	From brick work in lime mortar	1000 Nos.	1467.00
14.8.3	From brick work in cement mortar.	1000 Nos.	1854.00
14.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:		
14.9.1	In lime mortar.	Cum	303.00
14.9.2	In cement mortar.	Cum	641.00
14.9.3	In mud mortar	Cum	179.00
14.9.4	dry masonry	Cum	153.00
14.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer in charge :		
14.10.1	In lime mortar.	Cum	383.00
14.10.2	In cement mortar.	Cum	751.00
14.11	Removing mortar from stones and cleaning stones and concrete articles including stacking (net quantity of stacks of cleaned materials will be measured):		
14.11.1	Lime mortar.	Cum	128.00
14.11.2	Cement mortar.	Cum	185.00
14.12	Dismantling doors, windows and clearstory windows steel or wood shutter including chowkhats and holdfasts etc. complete and stacking within 50 meters lead:		
14.12.1	Of area 3 square meter and below.	Each	105.00
14.12.2	Of area exceeding 3 square meter.	Each	144.00
14.13	Taking out doors, windows and clearstory windows shutters (steel or wood) including stacking within 50 meters lead:		
14.13.1	Of area 3 square meter and below.	Each	42.00
14.13.2	Of area exceeding 3 square meter.	Each	55.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 meter span and 5m height including, levelling stacking the material within 50m lead:		
14.14.1	Of sectional area 40 Sq.cm and above	Cum	1368.00
14.14.2	Of sectional area below 40 Sq.cm.	Mtr.	6.00
14.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :		
14.15.1	of sectional area 40 Sq.cm and above	Cum per Meter span	167.00
14.15.2	of sectional area below 40 Sq.cm.	Mtr. .Per meter span	1.00
14.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres :		
14.16.1	of sectional area 40 Sq.cm and above	Cum per Meter span	238.00
14.16.2	of sectional area below 40 Sq.cm.	Mtr. per Meter span	1.00
14.17	Dismantling steel work in single sections including dismembering and stacking within 50 meters lead in:		
14.17.1	R.S. joists.	Kg	1.00
14.17.2	Channels, angles, tees & flats.	Kg	1.00
14.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	2.00
14.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	1.00
14.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	Kg per Mtr.	0.50
14.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	Kg per Mtr.	0.50

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.22	Extra for making of structural steel work required to be re-erected.	Kg	2.00
14.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 meter lead:		
14.23.1	For thickness of tiles 10mm to 25mm.	Sqm	20.00
14.23.2	For thickness of tiles 25mm to 40mm.	Sqm	34.00
14.24	Dismantling dry brick pitching in floors drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	Cum	343.00
14.25	Dismantling stone slab/ terrazo chip flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	Sqm	80.00
14.26	Dismantling brick tiles covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	Sqm	34.00
14.27	Demolishing mud phuska/ Lime dhar/ Kharanja in terracing and disposal of unserviceable material within 50 meters lead.	Cum	285.00
14.28	Dismantling roofing including ridges, hips, valleys and rafters etc. and stacking the within 50 meter lead of:		
14.28.1	G.I. Sheet.	Sqm	48.00
14.28.2	Asbestos Sheet.	Sqm	23.00
14.29	Dismantling stone slab roofing over wooden karries and battens (dismantling karries and battens to be paid for separately) including stacking of serviceable material and disposal of unserviceable material within 50 meter lead:	Cum	700.00
14.30	Dismantling Jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50-meter lead.	Sqm	65.00
14.31	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50-meter lead.	Sqm	54.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.32	Dismantling thatch roofing including mats bamboos, jafries etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 meter lead	Sqm	14.00
14.33	Dismantling wooden ballies in posts and struts including stacking within 50 meters lead.	Mtr.	6.00
14.34	Dismantling and stacking within 50 meters lead fencing post, struts, including earth work dismantling of concrete etc. in the case of:		
14.34.1	T or Angle Iron posts	Each	72.00
14.34.2	R.C.C. posts.	Each	80.00
14.35	Cutting ballies or wooden posts of fencing at the point of projection above the concrete at ground and stacking the same within 50 meter lead	Each	7.00
14.36	Dismantling barbed wire or chain link fencing including bending making rolls and stacking within 50-meter lead.	Kg	10.00
14.37	Dismantling wooden trellis work excluding frames but including bending, making rolls and stacking within 50 meter lead.	Sqm	17.00
14.38	Dismantling expanded metal or I.R.C. fabric with necessary battens and beading including stacking the serviceable material within 50-meter lead.	Sqm	21.00
14.39	Dismantling wooden boards in lining of walls and partition excluding supporting members but including stacking within 50 meter lead:		
14.39.1	Up to 10mm thick	Sqm	17.00
14.39.2	Thickness above 10mm up to 25mm	Sqm	25.00
14.39.3	Above 25mm thick.	Sqm	36.00
14.40	Dismantling precast concrete or stone slabs in wall partitions etc. including stacking within 50 meter lead:		
14.40.1	Thickness up to 40mm.	Sqm	77.00
14.40.2	Thickness 40mm up to 75mm	Sqm	117.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.41	Dismantling CI or asbestos rain water pipe with fitting and clamps including stacking within 50 meter lead:		
14.41.1	Up to 80mm dia pipe.	Mtr.	19.00
14.41.2	100mm dia pipe.	Mtr.	19.00
14.41.3	150mm dia pipe.	Mtr.	20.00
14.42	Dismantling tar felt over roofing complete including stacking of serviceable material and disposal of unserviceable material within 50-meter lead.	Sqm	23.00
14.43	Dismantling GI pipes (external work) including excavation and refilling trenches after taking out the pipes and including stacking of pipes within 50 meter lead:		
14.43.1	15mm to 40mm nominal bore.	Mtr.	41.00
14.43.2	Above 40mm nominal bore.	Mtr.	47.00
14.44	Dismantling CI pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into block, including stacking of pipes lead at site within 50 meter, of dia:		
14.44.1	Up to 150mm dia.	Mtr.	109.00
14.44.2	Above 150mm dia. up to 300mm dia.	Mtr.	147.00
14.44.3	Above 300mm dia.	Mtr.	197.00
14.45	Dismantling steel cylinder, R.C. pipes etc. including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes, within a lead of 50 meter, of dia:		
14.45.1	Up to 600mm dia.	Mtr.	197.00
14.45.2	Above 600 mm dia.	Mtr.	497.00
14.46	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes, and stacking the same within a lead of 50 meter, of dia:		
14.46.1	Up to 150mm.	Mtr.	86.00
14.46.2	Above 150mm.	Mtr.	105.00
14.47	Taking out CI cover with frame from stone slab / RCC slab of inspection chambers of various sizes including dismantling of stone slab / RCC slab roofing and stacking of useful materials near the site and disposal of unserviceable materials within 50-meter lead.	Each	187.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.48	Taking out C.I. cover with frame from stone slab / RCC slab of manholes of various sizes including dismantling of stone slab / RCC slab roofing and stacking of useful materials near the site and disposal of unserviceable materials within 50-meter lead.	Each	110.00
14.49	Dismantling of RCC spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap stacking the useful material near the site and disposal of unserviceable materials within 50 meter lead.	Each	1271.00
14.50	Dismantling of gully chamber of various sizes including CI grating with frame including stacking of useful materials near the site and disposal of unserviceable material within 50 meter lead including refilling the gap.	Each	255.00
14.51	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable material within 50 meter lead.	Each	277.00
14.52	Dismantling of CI sluice valve including stacking of useful materials within a lead of 50 meter:		
14.52.1	Up to 150mm dia.	Each	99.00
14.52.2	Above 150mm dia.	Each	353.00
14.53	Dismantling of spindle fire hydrant including stacking of useful material within 50 meter lead.	Each	213.00
14.54	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead :		
14.54.1	Upto 1.44 Sqm	Sqm	311.00
14.54.2	Above 1.44 Sqm to 2.52 Sqm	Sqm	462.00
14.54.3	Above 2.52 Sqm to 3.84 Sqm	Sqm	693.00
14.55	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meter lead.	Sqm	15.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
14.56	Dismantling CC jali including cost of making grooves in plaster and making good and including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge. .	Sqm	80.00
14.57	Removing aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.	Sqm	17.00
14.58	Making of hole (width up to 150 mm) in R.C.C. slab/wall/beams by power driven drilling machine complete as per direction of EI		
14.58.1	upto 150mm thick	Each	176.00
14.58.2	above 150 mm thick	Each	270.00
14.59	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50metres lead as per direction of Engineer-in-		
14.59.1	Water bound macadam road (average thickness 250 mm)	Sqm	69.00
14.59.2	bituminous road (average thickness 300 mm)	Sqm	134.00

CHAPTER : B-15

WATER PROOFING AND EXPANSION JOINT TREATMENT

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

WATER PROOFING TREATMENT

- 15.1 Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :
 (i) Ist course of applying cement slurry @ 4.4 Kg/sum mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.
 (ii) IInd course of 20mm cement plaster 1:3 (1 cement: 3 coarse sand) mixed with water. proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface..
 (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg per sqm. of area.
 (iv) IVth course of 400 micron thick PVC sheet .(Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)
- 15.2 Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :
- | | | | |
|--------|--|----|--------|
| 15.2.1 | Serrated with central bulb (225 mm wide, 8-11 mm wide) | Rm | 496.00 |
| 15.2.2 | Dumb bell with central bulb (180 mm wide, 8 mm wide) | Rm | 460.00 |
| 15.2.3 | Kickers (320 mm wide, 5 mm thick) | Rm | 472.00 |
- 15.3 Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :
 (i) first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @0.253 kg/sqm .This layer will be allowed to air cure for 4 hours.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- (ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm This layer will be allowed to air cure for 4 hours followed by water curing for 48 hours. The rates includes preparation of surface treatment & sealing of all joints ,corners, junction with polymer mixed slurry.
- 15.4 Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying :
- (i) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.
 - (ii) laying second layer of Fiber glass cloth when the first layer is still green . Overlaps of joints of fiber cloth should not be less than 10 cm .
 - (iii) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proffing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around
 - (iv) fourth and final layer of brick tiling ‘with cement mortar or any other approved protective coarse. (which will be paid for separately) For the purpose of measurement the entire treated surface will be measured
- 15.5 Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot 1.45Kg. per square meter of area for each course, second course of roofing felt type 3 grade -I (Hessian based self finished bitumen felt)and fourth and final course of stone grit 6mm and down size of pea sized gravel spread at 6cubes diameter per square meter including preparation of surface, but excluding grading, complete with Bitumen felt (Hessian base) type 3 grade - I conforming to : 1322.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.6	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45, 1.20 and 1.45 Kg per sqm. of area respectively second and fourth courses of roofing felt type 3 grade-I conforming to IS 1322 (Hessian based self finished bitumen felt) conforming to IS 1322 and sixth and final course of stone grit 6mm and down size of pea sized gravel spread at 6 cubic dm. per square metre including preparation of surface but excluding grading complete .	Sqm.	548.00
15.7	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or/and residual bitumen applied hot at 1.45, 1.20 and 1.70 Kg. per Sqm. of area respectively second and fourth courses of roofing felt type 2 grade-I (fiber base self finished bitumen felt) and sixth and final course of stone grit 6mm and down size or pea sized gravel spread at 8cu.dm per sqm including preparation of surface excluding grading complete confirming to IS : 1322 and 1346.	Sqm.	595.00
15.8	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or/and residual bitumen applied hot at 1.45, 1.20 and 1.70Kg. per Sqm of area respectively second and fourth courses of roofing felt type 2 grade 2 (fiber base self finished bitumen felt) and sixth and final course of stone grit 6mm and down size of pea sized gravel spread at 8cu.dm per sqm including preparation of surface excluding grading complete confirming to IS : 1322 and 1346.	Sqm.	595.00
15.9	Supplying and applying bituminous solution primer on roofs or on wall surface at 0.24 litre per sqm.	Sqm.	23.00
15.10	Deduct for omitting in water proofing treatment final course of spreading stone grit 6mm. and down size of pea sized gravel :		
15.10.1	At 6dm ³ per Sqm.	Sqm.	10.00
15.10.2	At 8dm ³ per Sqm.	Sqm.	12.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.11	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 Itr/sq.mt. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorized applicator of the manufacturer of membrane. 3 mm thick	Sqm.	413.00
15.12	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membran @ 0.40 Itr/sq.mt. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorized applicator of the manufacturer of membrane. 3 mm thick	Sqm.	474.00
15.13	Extra for covering top of membrane with Geotextile, 120gsm non woven, 100% polyester of thickness 1 to 1.25mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	Sqm.	56.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 15.14 Extra over items of Cement Plaster / Cement Concrete flooring / Plain or RCC work Providing and mixing admixture of synthetic Fiber 6mm / 12mm. @ rate of 125gm. pack per 50 Kg. of Cement or in the ratio of as specified by manufacturer specification and direction of Engineer In-charges with all leads and lifts.

EXPANSION JOINT TREATMENT:

- 15.15 Supplying and providing of two components poly sulphide sealant containing solid contents, confirming to standard specification and approved compatible primer, for priming vertical faces prior to application of poly sulphide sealant including all labour charges for sealing of expansion joints after drill mixing of two components sealing compound. Cleaning and preparation of expansion joint using wire brush sand papering with emery paper and filing with suitable mechanical means. The work includes racking and cleaning of joints, sticking, debonding tape on bottom of joint, applying primer on edges, using masking tape on edges, providing of sealant and removal of masking tape immediately after providing sealant in joint.
- 15.15.1 To vertical joint between RCC columns, bricks & stone masonry in size 40 mm width and 12 mm depth, including providing back up material (Thermocol foam) if required. Mtr. 828.00
- 15.15.2 To joints in flooring, as per drawing with first layer of poly sulphide sealant in size 20 mm width and 10 mm depth over PE Foam and then providing polyethylene foam back up rod 25 mm dia size and finally providing another layer of poly sulphide sealant in size 20 mm width and 10 mm depth over P.E. back up rod as per application procedure and direction of Engineer-in-charge. Mtr. 865.00
- 15.16 Providing and fixing in position bitumen impregnated fiberboard confirming to IS: 1838 in expansion joints including the cost of primer sealing compound.
- 15.16.1 12 mm. thick Sqm. 605.00
- 15.16.2 18 mm. thick Sqm. 792.00
- 15.16.3 25 mm. thick Sqm. 1034.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.17	Providing and fixing expansion joint board for building RCC column beams, walls, slab of Polyethylene foam of density 30 to 35 Kg/m ³ of Armour Board.		
15.17.1	20mm Thick	Sqm.	416.00
15.17.2	25 mm Thick	Sqm.	493.00
15.17.3	30 mm Thick	Sqm.	563.00
15.17.4	40 mm Thick	Sqm.	717.00
15.17.5	50 mm Thick	Sqm.	837.00
15.18	Providing and fixing 150 mm wide sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.		
15.18.1	Non-asbestos fibre cement board 6 mm thick as per IS:14862. 1	Rm.	116.00
15.18.2	Aluminum fluted strips 2 mm thick	Rm.	409.00
15.18.3	Acrylic sheet 5 mm thick	Rm.	110.00
15.19	Providing and filling in position bitumen sealing compound grade A (IS 1834) in expansion joints.	P.Cm. depth P. Cm. Width for 100mtr. length	713.00
15.20	Providing and filling in position bitumen mix filler of proportion 80 Kg. of hot bitumen, 1 Kg. of cement and 0.25 cubic meter of coarse sand for expansion joints.	Per cm width per cm depth per 100 mtr. length	223.00

R.C.C. FRAMES

15.21	Providing and fixing in cement sand mortar 1 : 3 single/double rebated R..C. Door Window and ventilator frames (Chowkhats) including 1% reinforcement as per design and concrete mix 1 : 2 : 4 cutting etc. complete incl. horns. and hold fasts :		
15.21.1	Size 75 x 50mm	Mtr.	129.00
15.21.2	Size 75 x 75mm	Mtr.	146.00
15.21.3	Size 100 x 75mm	Mtr.	154.00
15.21.4	Size 125 x 75mm	Mtr.	165.00
15.22	Extra for RC frames (Chowkhats) Curved in plan	Mtr.	10%
15.23	Extra for RCC frame finishing the exposed face with terrazzo (Mosaic) finish.	Mtr.	20%

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CUT STONE DOOR AND WINDOW FRAMES

- 15.24 Providing and fixing in cement sand mortar 1 : 4 single paitam (rebated) stone doors windows and ventilator frames of approved quarry :
- | | | | |
|---------|------------------|------|--------|
| 15.24.1 | Size 75 x 60mm | Mtr. | 190.00 |
| 15.24.2 | Size 75 x 75mm | Mtr. | 202.00 |
| 15.24.3 | Size 100 x 60mm | Mtr. | 232.00 |
| 15.24.4 | Size 100x 75mm | Mtr. | 271.00 |
| 15.24.5 | Size 125 x 100mm | Mtr. | 288.00 |
- 15.25 Providing and fixing in CM 1 : 4 double paitam (rebated) stone door window and ventilator frames of approved quarry:
- | | | | |
|---------|------------------|------|--------|
| 15.25.1 | Size 100 x 75mm. | Mtr. | 260.00 |
| 15.25.2 | Size 125 x 100mm | Mtr. | 315.00 |
- 15.26 Providing & mixing admixture in Cement Concrete flooring/Cement Plaster/Plain or RCC work, Synthetic Polyester Triangular Construction Fiber of length 6mm/12mm/18mm with specific gravity 1.34 to 1.40 and diameter 10-40 microns and melting point>220 degrees centigrade by using 125 gm fiber for 50 kgs cement used as per direction of Engineer-in-charge as per IS Code : 16481-2016
- 15.27 Providing & mixing admixture in Cement Mass Concrete flooring CC Road, RCC work, Canal Lining and Shotcrete Non Circular with ribbed surface Structural Synthetic Macro Fiber 42-50mm length, specific gravity of > 1.30 and diameter 0.8 - 1.20mm and melting poing > 220 degree centigrade @ 0.75% -100% by cement weight in mix as per direction of Engineer-in-charge.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.28	Nano technology water proofing, thermal insulation protection coating :		
15.28.1	Nano technology water proofing, thermal insulation protection coating 12 layer process for increasing life of building and damage control for roof.-- before coating scaling, cleaning, and preparing surface for treatment. Opening all joint and cracks and filling them with nano technology crack filling hydrophobic chemical with 2/3 coats. then after drying doing a PCC coat on cracks. One coat of nano technology hydrophobic/oiliophobic primer. Nano technology water proofing treatment in 3 coats non silicon based applied with fiber mesh sheets in medium. Nano technology thermal insulation coating highly elasticity in nature with 3 coats with 1000 micron width.2top coats of anti stain, anti slippery, natural transparent high shine chemical for better life of the treatment.	Sqm	1162.00
15.28.2	Nano technology water proofing, thermal insulation protection coating 9 layer process for increasing life of building and damage control protection for walls.-- before coating scaling, cleaning, and preparing surface for treatment. Opening all joint and cracks and filling them with nano technology crack filling hydrophobic chemical with 2 coats. then after drying doing a PCC coat on cracks. One coat of nano technology hydrophobic/oiliophobic primer. Nano technology water proofing treatment in 2 coats non silicon based thermal insulation coating highly elasticity in nature with 2 coats with 1000 micron thickness 2 top coats of anti slippery, natural transparent high shine chemical for better life of the treatment.	Sqm	829.00
15.28.3	Nano technology water proofing or anti stain protection coating 5-7 layer process for increasing life of all stone fascia/facades/flooring or stone building and damage control protection, life 7-9 years, warranty 5 years-- before coating washing of stone and degreasing of that area is done 1 coat. (Removing of algae/moss/blackness/stains/rust etc. is extra) then after drying doing 1 coat of Nono technology hydrophobic prime. After this on dry area Nano technology water proofing treatment in 3 coats wet on wet. In case of anti stain treatment 2 top coats of anti stain, anti slippery, natural transparent high shine or matt chemical treatment is done.	Sqm	893.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.29	<p>Providing and Applying ACRYLIC emulsion polymer waterproofing chemical coating, on over roof on over roof slabs/terrace/balconies/parapet wall etc.with following method/specification:</p> <p>Paint the surface with regular paint brush so as to obtain approximately 0.3mm thickness coating. apply the 2nd coat next day at right angles to the 1st coat so that total thickness of the coating should be approximately 0.6mm coverage by using above formulation will be 40 ft²/ litre of chemical. painted surface does not require any external water curing since chemical will hold sufficient water for curing. After the primer coat Apply 2 coats of modified acrylic emulsion polymer water proofing compound having solar heat reduction properties coating @ 0.330 KG/SQM on the surface of the interval of 3-4 hours. Undulation on the surface is repair before the waterproofing work.</p>	Sqm	526.00
15.30	<p>Providing & applying one coat of UV resistant polymer cement based waterproofing slurry coating of approved make and quality on concrete or plastered surface as per specifications including preparation of surface by cleaning brushing and dust removing, filling of cracks and making the surface leak proof by mixing one part of chemical with 2 parts of cement and 2 parts of water (covering area 1.86 Sq.M/Kg of chemical) including cost of cement, labour, tools & plant, scaffolding if necessary etc., complete as directed by Engineer in Charge.</p> <p>Note: Undulations/cracks found on the surface should be rectified with Cement Motor before application and the same will be paid under relavent items.</p>	Sqm	244.00
15.31	<p>Providing & applying Three coat of Acrylic Water Proof membrane having sunlight and UV resistant properties over waterproofing slurry coat , initial coat of 50-75 micron thickness with diluting 1 part of chemical with 2 parts of clean water, over which applying 2 coats at 2 Hrs .intervals each with diluting 1 part of chemical with 20% of clean water for total thickness of 400 to 450 microns (covering area 0.9 Sq.M/Kg of chemical including preparation of surface by cleaning, brushing and dust removing, scaffolding if necessary etc., with contractor's labour, tools, machinery etc, complete as directed by Engineer in Charge.</p>	Sqm	486.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.32	Providing & applying Three coat of pure Acrylic Water based elastomeric brush applied insulating coating on exterior surface overwaterproofing slurry coat , initial coat of 50-75 micron thickness with diluting 1 part of chemical with 2 parts of clean water, over which applying 2 coats at 2 Hrs, intervals each with diluting 1 part of chemical with 10% of clean water for total thickness of 400 to 450 microns (covering area 0.9 Sq.M/Kg of chemical) including preparation of surface by cleaning, brushing and dust removing, scaffolding if necessary etc., with contractor's labour, tools, machinery etc, complete as directed by Engineer in Charge.	Sqm	522.00
15.33	Providing and fixing 50mm thick extruded polystyrene rigid insulation board of required size between cavity wall , complying with ISO 4898:2008 & ASTM C 578-08b - type VI having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of >350 kPa listed as per ASTM D 1621, density of 34-36 kg/m ³ as per ASTM D 1622, water absorptions =< 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, part 1 of class B2 and as per ASTm E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the diretion of Engineer-in-Charge.	Sqm	659.00
15.34	Providing & fixing 50mm extruded polystyrene (XPS) insulation board density 36kg/m ³ , under or over RCC roof slab complete as per manufacturing specifications fixed with 1% suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.	Sqm	662.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
15.35	<p>Supply and Application of Solar IR Heat Reflective Coating System conforming to BIS Std IS 17218:2019 for concrete surface having minor leakage by thorough surface preparation to remove dust, dirt, molds etc. using High Pressure WaterJet / Wire Brush etc, opening of cracks and filling with elastomeric crack filler, then applying one absorption coat of UV resI tan1 elastomeric coating having min. 50% solids (i.e. Thermacool WP 51/or Equivalent), followed by application of "elastomeric clear coating White Cement" waterproofing coat having min. 400% elongation and tensile strength of 2.2 MPa and than top coating with 2 Coats of Solar IR</p> <p>Heat Reflective Coating conforming to BIS Standard IS 17218:2019 (i.e. Therrnacool 0.3C/or Equivalent) of cementitious surfaces, white colour, matt, surface coverage 3.25 sqm/Ltr/2 wat, dft 100- 120microns.The work shall be done as per the directions of Engineer-in-charges.water based pure acrylic, UV resistant, Solar IR Heat Reflective coating with Pull off Adhesion 2.8 Mpa, passes 2000 hrs accelerated durability test, suitable for all types of cementitious surfaces, white colour, matt, surface coverage 3.25 sqm/Ltr/2 wat, dft 100- 120microns.The work shall be done as per the directions of Engineer-in-charges.</p>	Sqm	580.00

CHAPTER : B-16

ALUMINIUM & P.V.C. WORK

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

16.1 Providing and fixing aluminum work for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make conforming to IS :733 and IS :1285, fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. at junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in – charge .(Glazing and paneling to be paid for separately).

16.1.1 For fixed portion

- | | | |
|---|-----|--------|
| 16.1.1.1 Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer) | Kg. | 326.00 |
| 16.1.1.2 Powder coating aluminum (minimum thickness of powder coating 50 micron) | Kg. | 351.00 |
| 16.1.1.3 Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron) | Kg. | 364.00 |

16.1.2 For shutters buildup standard tubular sections of openable doors ,windows & ventilators including providing & fixing hinges / rollers etc. and making provision for fixing of fittings wherever required (lockes shall be paid for separately).

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|---|-----|--------|
| 16.1.2.1 Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer) | Kg. | 355.00 |
| 16.1.2.2 Powder coating aluminum (minimum thickness of powder coating 50 micron) | Kg. | 381.00 |
| 16.1.2.3 Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron) | Kg. | 394.00 |

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.2	Extra for shutters of sliding aluminum windows		10%
16.3	Extra for work done in curved / circular shape.		10%
16.4	Providing and fixing 12 mm thick prelaminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS : 12823 bonded formaldehyde synthetic resin ,of approved brand and manufacture in paneling fixed in aluminium doors ,windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and direction of engineer-in-charge.		
16.4.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	Sqm	1030.00
16.4.2	Prelaminated particle board with decorative lamination on both sides.	Sqm	1092.00
16.5	Providing and fixing glazing in aluminium door, window ,ventilator shutters and partitions etc. with PVS / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item.)		
16.5.1	With glass panes of 4.0 mm thickness (weight not less than 10.0 kg/sqm) as per IS : 2835.	Sqm	791.00
16.5.2	With float glass panes of 5.0 mm thickness (weight not less than 13.50 kg/sqm)	Sqm	902.00
16.5.3	With float glass panes of 8 mm thickness	Sqm	1235.00
16.6	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S.		
16.6.1	With stainless steel cover plate	Each	1426.00
16.6.2	With brass cover plate	Each	1976.00
16.7	Filling the gap upto 5 mm depth and 5 mm width in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.	Rm	78.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.8	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	328.00
16.9	Providing and fixing aluminium U shape handle of size 100mm with SS screws etc. Complete as per direction of Engineer-in-charge		
16.9.1	Anodized (AC 15) aluminium	Each	67.00
16.9.2	Powder coated minimum thickness 50 micron aluminium	Each	73.00
16.9.3	Polyester powder coated minimum thickness 50 micron aluminium .	Each	75.00
16.10	Providing and fixing expanded grill made of aluminum as per design and drawing having members section of size 7.5mm x 6.0mm and opening of size 102mm x 99mm to aluminum window/vent with required screws, Y and H aluminium section (as per drawing) at the ends and middle joints respectively complete in all respect as per direction of engineer in charge.		
16.10.1	Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer)	Sqm.	1775.00
16.10.2	Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm.	1843.00
16.10.3	Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm.	1977.00
16.11	S&f fixed wire gauge of stainless steel of 14 mesh x 24 gauge to the aluminium window by Aluminium beading 20x3mm with suitable screws not exceeding 150mm distance at all heights with all lead and lift with scaffolding.	Sqm	925.00
16.12	Providing and fixing vertical Blinds, headrail shall be oriented aluminum alloy 50 mm wide x 18 mm high the thickness shall be 1.2 mm. Control unit shall be made of high grade polymer and shall be housed in side the headrail, which shall transfer motion from chain tilter to tilt rod. Chain tilter shall be made of plastic bead of diameter 4.5 mm through which 2 mm thick polyester code passes. Tilt rod shall be extruded aluminum having 3 key ways. Runner shall be moulded plastic and shall have to plastic wheels mounted on plastic axles to enable runner to slide unhindered in headrail. Luver shall be made of fabric 100 mm colour fast and shall have protective scotchgard coating to resist stains and dust. Bottom mechanism consist bottom weight made of powder coated galvanized steel for maximum corrosion resistance. The bottom weight shall be attached with bottom.	Sqm	1623.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.13	Providing and fixing Horizontal blinds /Venation blind shall be cold rolled formed U shape 23 mm high x 25 mm wide with flanged edges. It shall be made of heavy gaze 0.56 mm galvanized steel, Slates shall be made of virgin Al. alloy (having 3.5 – 4.5% of Mg. Content of width 25 mm. The slat shall have dust guard paint coating, the chord lock shall be of thick tomized steel and shall be securely attach in the head rail. It shall provide locking arrangement of the cord. Tilt rod shall be made of galvanized steel it shall have a D shaped with an average cross section with diameter of 6 mm to achieve minimum torsional deflection.	Sqm	1623.00
16.14	Providing and fixing Drapery rod shall be made of 20 gauge cold rolled steel strip, which is electrical resistance welded. The section will be available 25.4 mm diameter the section shall be coated with acid resistance polymer finish shall made from ABS material in nearest matching colour of rod. The ring shall be made from ABS material in nearest matching colour to rod. Brackets made of galvanized steel.	Rm	474.00
16.15	Providing and fixing sun control film, thickness of film 1 Mil Visible Light Transmittance 4-24% & Solar Energy Transmittance 42-51% & Total solar Energy rejection 37-43% of approved colour and shade , complete in all respect , at all level , as directed by engineer- in -charge.	Sqm	639.00
PVC ITEMS			
16.16	Providing and fixing factory made of uPVC Extruded section having an overall dimension as below (tolerance+/-1mm) with wall thickness 2.0mm+/-0.2mm,corners of the door frame to be mitred and welded of plastic ,galvanized brackets and stain less steel screws.The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19x19mm and 1mm+/-0.1mm wall thickness and 3 nos.stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.		
16.16.1	Extruded section profile size 48x40 mm	Rm	196.00
16.16.2	Extruded section profile size 42x50 mm	Rm	218.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.17	Providing and fixing to existing door frames 24mm thick factory made PVC door shutters made of stiles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2mm +/- 0.2 mm with inbuilt edging on both sides. The stiles and rails mitred and joined at the corners by means of M.S.galvanized/plastic brackets of size 75x220mm having wall thickness 1.0mm+/- 0.1mm and stainless steel screws. The stiles of the shutter reinforced by inserting galvanized M.S.tube of size 20x20mm and 1mm +/-0.1mm wall thickness. The lock rail made up of 'H' section,a uPVC hollow section of size 100x24mm and 2mm +/- 0.2mm wall thickness fixed to the shutter stiles by means of plastic/ galvanized M.S.'U' cleats.The shutter frame fitted with a uPVC multi-shambered single panel of size not less than 610mm, having overall thickness of 20mm and 1mm +/- 0.1mm wall thickness. The panels fitted vertically and tie bar at two places by inserting horizontally 6mm galvanized M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C.and bathroom door shutter).	Sqm	1761.00
16.18	Providing and fixing to existing door frames 30mm thick factory made polyvinyl chloride (PVC) door shutter made of stiles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2mm +/- 0.2mm with inbuilt decorative moulding edging on one side. The stiles and rails mitred and joined and the corners by means of M.S.galvanized/plastic brackets of size 75x220 mm having wall thickness 1.0mm and stainless steel screws. The stiles of the shutter reinforced by inserting galvanized M.S.tube of size 25x20 mm and 1mm +/- 0.1mm wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2mm +/- 0.2mm wall thickness fixed to the shutter stiles by means of plastic/galvanized M.S.tube 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 610mm,having overall thickness of 20mm and 1mm+/- 0.1mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanized M.S.rod and fastened with nuts and washers.complete as per manufacturer's specification and direction of Engineer-in-charge.(For W.C.and bathroom door shutter)	Sqm	1829.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.19	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.	Rm	277.00
16.20	Providing and fixing to existing door frames.		
16.20.1	30mm thick factory made solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles and 15 mm x15mm , top & bottom rails. M.S .frame shall have a coat of steel primers of approved make and manufacture M.S. frame covered with 5mm thick heat moulded PVC ‘C channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming stiles; and 5mm thick, 95mm wide PVC sheet out of which 75 mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75 mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet shall be provided as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm +2mm) thick x 15mm wide PVC sheet bending on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the ‘C Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacture’s specification & drawing.(For W.C.and bathroom door shutter).	Sqm	3211.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.20.2	30mm thick factory made solid both side Pre laminated panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles and 15x15mm top & bottom rails. M.S .frame shall have a coat of steel primers of approved make and manufacture M.S. frame covered with 5mm thick heat moulded PVC ‘C channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming stiles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75 mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet shall be provided as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded/ sealed to the stiles & rails with 7mm (5mm +2mm) thick x 15mm wide PVC sheet bending on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the ‘C Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer’s specification & drawing.(For W.C.and bathroom door shutter).	Sqm	3347.00
16.21	Providing and fixing of false ceiling with grid of M.S.tube section of size 19mm X 19mm and with a wall thickness of 1mm+/- 0.2mm.The side pipe and the intermediate pipes is fixed to the roof from the top with the help of ceiling angles/wire grid shall be covered by the uPVC profile section of size 6mm X 250mm with wall thickness of 0.80mm +/- 0.2mm,with the help of self tapping screw of 6mm X 13mm, 6mm X 19mm.Necessary cutouts for electric connections, lighting, air conditioning etc, shall be provided at required place. The perimeter edge shall be covered by extruded PVC corner beading section of size 9mm X 28mm or 25mm X30mm with a wall thickness of 1mm+/-0.2mm fixed by applying cyanoacrylic adhesive complete as per manufacturer’s specification and direction of Engineer-in-charge.	Sqm	996.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.22	Providing and fixing of wall paneling on grid made out of PVC profile section of size 21x17mm with a wall thickness of 1.5mm+/-0.2mm, fixed on the existing wall with wood screw of size 50mm X 8mm with rowel plug at a spacing of 900mm center. uPVC profile section of size 150mm X 10mm with a wall thickness of 1.0mm+/-0.2mm to be fixed on the grid by self tapping screw of size 19mm X 6mm. Necessary cutouts for electrical connection to be provided at required places. The edge and periphery, finally to be covered by extruded PVC beading section of size 28mm X 12mm with a wall thickness of 1.0mm+/-0.2mm complete as per manufacturer's specification and direction of Engineer-in-charge.	Sqm	1394.00
16.23	Supply of " Computer Table" of Modular nature having all the necessary arrangement for keyboard, CPU, UPS, Printer and wire manager Table Top : The table top of size 900 x 600mm(WxD) would be made out of post formed on 25 mm thick particle board with 0.7mm thick Carvica sheet in half round post formed finish on the front and rear side, matching color compensating laminate fixed on the bottom side. Other two sides are edge banded and duly sealed with 1.5 mm thick PVC edge banding of matching color with high pressure through feed machine. Keyboard Below the table top the keyboard pull out tray having sliding arrangement fixed on side supporting legs with 450mm G.I. telescopic channel. Keyboard of size 750 x 450 made out of 18 mm thick Particle board laminate with 0.7mm thick laminate sheet having all four sides Flat edge banded and duly sealed with 1.5 mm thick PVC edge banding of matching color with high pressure through feed machine. Side Support : Two supporting side leg of size 600 x 750mm(WxH) made out of post formed on 18 mm thick particle board with 0.7mm thick Carvica sheet in half round post formed finish on two sides and other two sides are edge banded and sealed with	Each	7392.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
CPU, UPS & Printer Places			
<p>Table having the provision for CPU of size 300 x 600 x 600mm(WxDxH) below the table top on the right side of table adjoining to this on left side below the table the provision for UPS of size 450 x 600 x 250mm (WxDxH) and above this the provision for the Printer and stationary having overall dimension of 450 x 600 x 300mm(WxDxH). All this is made out of 18 mm thick Particle board laminate with 0.7mm thick laminate sheet having all four sides flat edge banded and duly sealed with 1.5 mm thick PVC edge banding of matching color with high pressure through feed machine.</p> <p>All the parts of the table are duly fixed with mini fix dowel system with each other having matching drilled holes to be made on CNC multi hole boring machine for proper matching and alignment of the different part of the table, 4nos. of Self Adjusting level screw of size 45 x 6mm are provide at the bottom of the both legs for the proper leveling of the table.</p>			
16.24	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particale board with post forming three drawer pedestal unit one KBT or one CPU trolley. Size 4800 x 1500 x 1200mm single seat in combination	Each	15545.00
16.25	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with four side edge banding one drawer and one open able shutter pedestal unit one KBT or one CPU trolley. Size 6000 x 3000 x 1200mm single seat in combination	Each	24651.00
16.26	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick MDF board with Membrane three drawer pedestal unit one KBT or one CPU trolley. Size 4600 x 2100 x 1200mm single seat in combination	Each	24581.00
16.27	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with post formed three drawer pedestal unit one KBT or one CPU trolley. Size 4500 x 2400 x 1200mm single seat in combination	Each	22460.00

(Rate of this item is effective from 01.12.2016)

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.28	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick MDF board with Membrane three drawer pedestal unit one KBT or one CPU trolley. Size 6600 x 3000 x 1200mm single seat in combination	Each	29930.00
16.29	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with post formed one drawer or one open able shutter pedestal unit one KBT or one CPU trolley. Size 4500 x 3000 x 1200mm single seat in combination	Each	23377.00
16.30	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with post formed three drawer pedestal unit one KBT or one CPU trolley. Size 3600 x 2400 x 1200mm single seat in combination	Each	17350.00
16.31	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with four side edge banding 1200mm height storage unit with two drawer one KBT or one CPU trolley. Size 1500 x 3000 x 1650mm single seat in combination	Each	50149.00
16.32	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with post formed three drawer one KBT or one CPU trolley. Size 2100 x 2100 x 1200mm single seat in combination	Each	8737.00
16.33	Supply and fixing of Modular work Station with Partition 32mm thick Aluminum top 25 mm thick particle board with post formed legs 18mm particle board with four side edge banding one KBT or one CPU trolley. Size 2100 x 2100 x 1200mm single seat in combination	Each	14278.00
16.34	Supply and fixing of Modular work Station with Partition 60mm thick Aluminum top 25 mm thick particle board with post formed legs 18mm particle board with four side edge banding with three drawer one KBT or one CPU trolley Two 1200mm height storage unit. Size 6000 x 3000 x 1200mm single seat in combination	Each	157190.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.35	Supply and fixing of Modular work Station with Partition 22mm thick Aluminum top 25 mm thick particle board with post formed one drawer or one open able shutter one KBT or one CPU trolley Two 1200mm height storage unit. Size 3000 x 2700 x 1200mm single seat in combination	Each	18165.00
16.36	Supply and fixing of Modular work Station with Partition 22mm thick Aluminum top 25mm thick particle board with post formed one drawer or one open able shutter one KBT or one CPU trolley Two 1200mm height storage unit. Size 2400 x 1200 x 1200mm single seat in combination	Each	14909.00
16.37	Supply and fixing of Modular work Station with Partition 60mm thick Aluminum top 25mm thick particle board with post formed one drawer or one open able shutter one KBT or one CPU trolley Two 1200mm height storage unit. Size 1200 x 1200 x 1200mm single seat in combination	Each	17562.00
16.38	Supply and fixing of Modular work Station with Partition 22mm thick Aluminum top 25mm thick particle board with post formed one drawer or one open able shutter one KBT or one CPU trolley Two 1200mm height storage unit. Size 2400 x 600 x 1200mm single seat in combination	Each	17895.00
16.39	Supply and fixing of Modular work Station with Partition 60mm thick Aluminum top 25mm thick particle board with post formed one drawer or one open able shutter one KBT or one CPU trolley Two 1200mm height storage unit. Size 1800 x 1800 x 1950mm single seat in combination	Each	62668.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.40	Providing and fixing Structural glazing work with toughened glass of 6mm thick and reflective colour as approved in dark shade like Blue/Dark Blue etc. with frame work of curtain section 65x60mm (Weight 1.64 kg/m min.) made of aluminium with chrome plating. Internal frame work will also be of curtain section 65x60mm of chrome plated aluminium section with 20x20mm aluminium tube section and structural spacer made of rubber. The aluminium frame work size as per instruction of Engineer-in-charge and including openable panels with all necessary sections and fitting. The work include silicon structural adhesive for complete gripping of glass with framing members and silicon weather seal sealant to prevent moisture/water through joints. Glass will be fixed in plumb and with uniform spacing of 10-12mm wide duly filled with silicon weather seal sealant. The work includes all labour, scaffolding, structural aluminium work, toughened glasses, silicon weather seal sealant, silicon structural adhesive, structural spacer, all accessories like handles, peg stays, M-15 grade cement concrete for fixing holdfast. (Face area of glass shall be measured)	Sqm	5381.00
16.41	Supply and fixing of polycarbonate wall fencing of existing wall, fencing of 0.9 mtr. Height above the existing wall, main member PVC profile section of size 125mmx125mmx900mm (c/c 1.67 mtr. length) with a wall thickness of 2.00mm+0.20mm and Horizontal panel PVC profile section of size 305mmx20mm (3 nos. 1.6 mtr. length) with wall thickness 1.00mm + 0.1mm and side edge covered with PVC C-Section of size 24mm x 18mm with a wall thickness of 2.00mm+0.20mm Horizontal panel reinforced with G.I. section (C-Type) with a wall thickness of 1.20+0.10mm and horizontal panel having side in main member groove (vertical pillar 125x125mm) all complete as per design specification and as direction by Engineer in charge.	Sqm	2570.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.42	<p>Providing and fixing of uPVC casement fixed windows or ventilators manufactured in ISO 9001:2000 & 14001:2004 certified company.</p> <p>Frame : Made from the Extruded uPVC Window Profile Section of size 60 x 60mm having outer wall thickness of 2.25mm (+/- 0.2mm) and 3 box multi-chamber construction, White in finish, duly reinforced with 1.2mm thick G/J/U/O TYPE GI section. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Fix Mullion made of 76 x 60mm uPVC Profile Section with steel reinforcement shall be provided in windows as per the requirement. Frame shall have 'O' type EPDM gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter. Glazing bead of size 34 x 20mm with 'K' & 'O' type inner and outer EPDM weather seal gaskets alongwith 5mm thick ISI make plain float glass. All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints.</p> <p>Hardware : Installation at Site : Complete window is to be installed on site with 10 x 100mm fastners with white cap in existing pre-finished wall cut-out cemented to glass level plane at all height & width and silicon glue is applied to fill up the crevices between wall and window frame. Complete in all respect as per the drawing and specifications and direction of engineer-in-charge.</p>	Sqm	5128.00
16.43	Providing and fixing expanded grill made of aluminum as per design and drawing having members section of size 7.5mm x 6.0mm and opening of size 75mmx72mm to aluminum window/vent with required screws, Y and H aluminium sec (as per drawing) at the ends and middle joints respectively complete in all respect as per direction of engineer in charge.		
16.43.1	Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer) Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer)	Sqm	1843.00
16.43.2	Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm	1910.00
16.43.3	Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm	2044.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.44	Providing and fixing expanded grill made of aluminum as per design and drawing having members section of size 7.5mm x 6.0mm and opening of size 50mmx48mm to aluminum window/vent with required screws, Y and H aluminium section (as per drawing) at the ends and middle joints respectively complete in all respect as per direction of engineer in charge.		
16.44.1	Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer)	Sqm	1910.00
16.44.2	Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm	1977.00
16.44.3	Polyester Powder coating aluminum (minimum thickness of powder coating 50 micron)	Sqm	2111.00
16.45	Providing and fixing of uPVC Sliding windows: Frame Made from the Extruded uPVC Window Profile Section of size 106w x 50h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and 3 box multi-chamber construction, White in finish, duly reinforced with 1.2 mm thick GI section. Frame shall have three track configuration, two for sliding of window shutter and one for mosquito mesh shutter. Vertical member of frame which bears the sliding shutter load shall have aluminium rail/track for smooth sliding of shutter rollers. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Shutter : The shutter of sliding window shall be made of 39w x 69h mm Extruded 3 box multi- chamber uPVC Window Profile Section of white colour having outer wall thickness of 2.5mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with uPVC glazing bead of size 22 x 20 mm	Sqm	8443.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.46	<p>Providing and fixing of uPVC Sliding windows: Frame Made from the Extruded uPVC Window Profile Section of size 106w x 50h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and 3 box multi-chamber construction, Laminated (colour) finish, duly reinforced with 1.2 mm thick GI section. Frame shall have three track configuration, two for sliding of window shutter and one for mosquito mesh shutter. Vertical member of frame which bears the sliding shutter load shall have aluminium rail/track for smooth sliding of shutter rollers. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side.</p> <p>Shutter : The shutter of sliding window shall be made of 39w x 69h mm Extruded 3 box multi- chamber uPVC Window Profile Section of laminated (colour) having outer wall thickness of 2.5mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with uPVC glazing bead of size 22 x 20 mm with inner and outer co-extruded EPDM/TPE-E weather seal gaskets alongwith 6mm thick ISI make plain float glass. Mesh shutter shall be made of 39w x 69h mm Extruded 3 box multi-chamber UPVC Window profile section of laminated (colour) having outer wall thickness of 2.5mm (+/- 0.2mm) provided with reinforcement of 1.5 mm thick GI section duly mitered cut & thermal welded at all corners and fitted with nylon/polymer mesh and rollers/mullions</p>	Sqm	11570.00
16.47	<p>Providing and fixing of uPVC Sliding windows: Frame Made from the Extruded uPVC Window Profile Section of size 106w x 50h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and 3 box multi-chamber construction, White in finish, duly reinforced with 1.2 mm thick GI section. Frame shall have three track configuration, Vertical member of frame which bears the sliding shutter load shall have aluminium rail/track for smooth sliding of shutter rollers. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side.</p> <p>Shutter : The shutter of sliding window shall be made of 39w x 69h mm Extruded 3 box multi- chamber uPVC Window Profile Section of white colour having outer wall thickness of 2.5mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with uPVC glazing bead of size 22 x 20 mm with inner and outer co-extruded EPDM/TPE-E weather seal gaskets alongwith 6mm thick ISI make plain float glass.</p>	Sqm	6343.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.48	<p>Providing and fixing of uPVC Sliding windows: Frame Made from the Extruded uPVC Window Profile Section of size 106w x 50h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and 3 box multi-chamber construction, Laminated (colour) finish, duly reinforced with 1.2 mm thick GI section. Frame shall have three track configuration, Vertical member of frame which bears the sliding shutter load shall have aluminium rail/track for smooth sliding of shutter rollers. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side.</p> <p>Shutter : The shutter of sliding window shall be made of 39w x 69h mm Extruded 3 box multi- chamber uPVC Window Profile Section of laminated (colour) having outer wall thickness of 2.5mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with uPVC glazing bead of size 22 x 20 mm with inner and outer co-extruded EPDM/TPE-E weather seal gaskets alongwith 6mm thick ISI make plain float glass.</p>	Sqm	9039.00
16.49	<p>Providing and fixing of UPVC casement openable windows (outward / inward): Outer Frame made from the Extruded UPVC Windows profile section of size 60w X 60h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and three chamber constuction, White in finish, duly reinforced with 1.5mm thick GI section. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Fix Mullion made of 60w X 80h mm UPVC profile section with steel reinforcement shall be provided in windows having 2 or more openable shutters, as per the requirement. Frame shall have co-extruded with EPDM/TPE-E gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter.</p> <p>Shutter:</p>	Sqm	9118.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

16.50	<p>The shutter of outward openable window shall be made of size 60w X 74h mm and shutter of inward openable window shall be made of size 60w x 77h mm Extruded 3 box multi-chamber UPVC Window profile section of white colour having outer wall thickness of 2.25mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with UPVC glazing bead of size 36 X 20mm with inner and outer co-extruded EPDM/TPE-E weather seal gasket alongwith 6mm thick ISI make plain float glass. All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints. Hardware: Window shutter are fixed with frame on 2.5mm thick SS301 Grade friction hinge system to keep the window opened at desired angle. Friction Hinge also enables easy cleaning of glass on both side from the inside of building.</p> <p>Providing and fixing of UPVC casement openable windows (outward / inward): Outer Frame made from the Extruded UPVC Windows profile section of size 60w X 60h mm having outer wall thickness of 2.5mm (+/- 0.2mm) and three chamber construction in Laminated (colour) finish, duly reinforced with 1.5mm thick GI section. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Fix Mullion made of 60w X 80h mm UPVC profile section with steel reinforcement shall be provided in windows having 2 or more openable shutters, as per the requirement. Frame shall have co-extruded with EPDM/TPE-E gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter.</p> <p>Shutter: The shutter of outward openable window shall be made of size 60w X 74h mm and shutter of inward openable window shall be made of size 60w x 77h mm Extruded 3 box multi-chamber UPVC Window profile section of laminated(colour) having outer wall thickness of 2.25mm (+/- 0.2mm) provided with reinforcement of 1.5mm thick GI section duly mitered cut & thermal welded at all corners and fitted with UPVC glazing bead of size 36 X 20mm with inner and outer co-extruded EPDM/TPE-E weather seal gasket alongwith 6mm thick ISI make plain float glass. All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints. Hardware: Window shutter are fixed with frame on 2.5mm thick SS301 Grade friction hinge system to keep the window opened at desired angle. Friction Hinge also enables easy cleaning of glass on both side from the inside of building.</p>	Sqm	13474.00
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Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.51	<p>Providing and fixing of UPVC casement fully (french) open-able windows (outward / inward) : Frame made from the Extruded UPVC Windows profile section of size 60w X 60h mm having outer wall thickness of 2.5 mm (+/- 0.2mm) and 3 box multi-chamber construction, White in finish, duly reinforced with 1.5 mm thick G/J/U/O TYPE GI section. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Fix Mullion made of 60w X 80h mm UPVC profile section with steel reinforcement shall be provided for the fix portion of the window and for the window area having 2 or more openable shutters / fix part as per the requirement. Frame shall have co-extruded EPDM/TPE-E gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter.</p> <p>Shutter: The shutter of outward openable window shall be made of size 60w X 74h mm and shutter of inward openable window shall be made of size 60w X 77h mm Extruded 3 box multi-chamber UPVC Window profile section of white colour having outer wall thickness of 2.5 mm (+/- 0.2mm) provided with reinforcement of 1.5 mm thick GI section duly mitered cut & thermal welded at all corners. shutter as well as fix part of the window shall be fitted with UPVC glazing bead of size 36 X 20 mm with inner and outer co-extruded EPDM/TPE-E Gasket.</p>	Sqm	11027.00
16.52	<p>Providing and fixing of UPVC casement fully (french)open-able windows Laminated Profile (Colour) (outward / inward) : Frame made from the Extruded UPVC Windows profile section of size 60w X 60h mm having outer wall thickness of 2.5 mm (+/- 0.2mm) and 3 box multi-chamber construction, Laminated(colour) finish, duly reinforced with 1.5 mm thick GI section. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side. Fix Mullion made of 60w X 80h mm UPVC profile section with steel reinforcement shall be provided for the fix portion of the window and for the window area having 2 or more openable shutters / fix part as per the requirement. Frame shall have co-extruded EPDM/TPE-E gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter.</p> <p>Shutter: The shutter of outward openable window shall be made of size 60w X 74h mm and shutter of inward openable window shall be made of size 60w X 77h mm Extruded 3 box multi-chamber UPVC Window profile section of laminated (colour) having outer wall thickness of 2.5 mm (+/- 0.2mm) provided with reinforcement of 1.5 mm thick GI section duly mitered cut & thermal welded at all corners. shutter as well as fix part of the window shall be fitted with UPVC glazing bead of size 36 X 20 mm with inner and outer co-extruded EPDM/TPE-E Gasket.</p>	Sqm	14272.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

16.53 Providing and fixing of openable uPVC Doors with or without fix top: Frame Made of Extruded uPVC Window Profile Section of size 60w x 70h mm having outer wall thickness of 2.75mm (+/- 0.2mm) and 3 box multi-chamber construction, White in finish, duly reinforced with 1.2mm thick GI section. All the corners shall be mitered cut & thermal welded so as to form door frame. Fix Mullion made of 60w x 80h mm uPVC Profile Section with steel reinforcement shall be provided for the top fix portion of the doors or in case of the doors having more than two openable shutters, as per the requirement / drawing. Frame of openable door shall have „O“ type EPDM gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter. Shutter : The shutters of openable door shall be made of 60w x 95h mm Extruded 3 box multi-chamber uPVC Window Profile Section of white colour having outer wall thickness of 2.75mm (+/- 0.2mm) provided with reinforcement of 2.0 mm thick GI section duly mitered cut & thermal welded at all corners, provided with center mullion (if specified in drawing) of size 60w x 80h mm uPVC Profile Section and fitted with uPVC glazing bead of size 36 x 20mm with inner and outer co-extruded EPDM/TPE-E weather seal gaskets alongwith 6mm thick ISI make plain float glass. All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints. Hardware: Each openable door shutters is to be fixed with three load beading butt hinges and locking of doors is to be provided with multi-point transmission gear (ESPG) with white finish powder- coated lockable handle. Installation at site: Complete door is to be installed on site with 10 X 100mm fastners with white cap in existing pre-finished wall cut-out cemented to glass level plane at all height & width and silicon glue is applied to fill up the crevices between wall and door frame. Complete in all respect as per the drawing and specification and direction of engineer-in-charge.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- 16.54 Providing and fixing of openable uPVC Doors with or without fix top: Frame Made of Extruded uPVC Window Profile Section of size 60w x 70h mm having outer wall thickness of 2.75mm (+/- 0.2mm) and 3 box multi-chamber construction, Laminated (colour) finish, duly reinforced with 1.2mm thick GI section. All the corners shall be mitered cut & thermal welded so as to form door frame. Fix Mullion made of 60w x 80h mm uPVC Profile Section with steel reinforcement shall be provided for the top fix portion of the doors or in case of the doors having more than two openable shutters, as per the requirement / drawing. Frame of openable door shall have co-extruded EPDM/TPE-E gasket fitted in in-built groove of frame profile for proper air & sound insulation of the shutter. Shutter : The shutters of openable door shall be made of 60w x 95h mm Extruded 3 box multi-chamber uPVC Window Profile Section of laminated(colour) having outer wall thickness of 2.75mm (+/- 0.2mm) provided with reinforcement of 2.0 mm thick GI section duly mitered cut & thermal welded at all corners, provided with center mullion (if specified in drawing) of size 60w x 80h mm uPVC Profile Section and fitted with uPVC glazing bead of size 36 x 20mm with inner and outer co-extruded EPDM/TPE-E weather seal gaskets alongwith 6mm thick ISI make plain float glass. All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints. Hardware: Each openable door shutters is to be fixed with three load beading butt hinges and locking of doors is to be provided with multi-point transmission gear (ESPAG) with white finish powder- coated lockable handle. Installation at site: Complete door is to be installed on site with 10 X 100mm fastners with white cap in existing pre-finished wall cut-out cemented to glass level plane at all height & width and silicon glue is applied to fill up the crevices between wall and door frame. Complete in all respect as per the drawing and specification and direction of engineer-in-charge.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.55	Providing and Fixing Aluminium composite panel of approved make 3mm thick with 0.5mm thick skin & PVDF coated approved shade for wall panelling. Main framing work to be done using 50mmx25mmx1.6mm tubular section of approved make. Stainless steel screw to be used to fix the ACP panel to be fixed to the main frame with industrial adhesive tape and panel groove to be sealed with weather proof silicon sealant suitable for glass/aluminium etc. complete in all respect as approved by Engineer-in-charge.	Sqm	2594.00
16.56	Providing and fixing stainless steel railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).		
(a)	Grade 304	Kg.	503.00
(b)	Grade 204	Kg.	432.00
16.57	Supply & Fixing of superior quality wall covering decorative paper of composition of paper and synthetic blend and providing material such as fevicol, cmc powder, chemical and water for fixing the wall paper as per enclosed photograph and direction Engineer-in Charge.	Sqm	450.00
16.58	Supplying and fixing Rollor Blinds of good quality and approved make made out of Imported fabric including Roller Mechanism and lock with chain system with all necessary hooks etc. complete as per direction and sample approved by engineer-in-charge.	Sqm	1700.00
16.59	Providing & Fixing Aluminium composite panel of indo bond/euro/flexi bond of equivalent made 3mm that with 0.5mm thick skin& PVDF coated of approved shads for toilet door in double layer in Aluminium frame complete in all respect as per sample approved by Engineer in Charges.	Sqm	929.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
16.60	Providing & Fixing brass handle 125mm with plate 175x22mm with screw complete in all respect as per direction of Engineer in charges.	Nos.	195.00
16.61	Labour Charges for removing and refixing Aluminium Partitions door including minor repair on alteration in the same.	Sqm	275.00
16.62	<p>Providing factory made pvc internal door frame of size 100mm x 45mm with a wall thickness of 5mm (± 0.25), made out of extruded 5mm (± 0.25) thick PVC Sheet of Density 600 Kg /Cbm Manufactured by an ISO-9001-2015 certified Company, and by joining 3nos. heat bent PVC sheet sections. The inside section of size 90x30mm shall be made from plain colour PVC sheet of 5mm (± 0.25) thickness. The inside section will be covered by sticking two sections of size 30x35mm and 70x45mm made from 5mm (± 0.25) thick plain PVC sheet. The frame shall be mitre cut at two corners and joined with 4nos. of 150mm long brackets of 15mm x 15mm M.S. Square tube.</p> <p>The two vertical door frames are to be reinforced with 40mm x 20mm M.S. tube of 19 guage through out the frame. The door frame shall be fixed to the wall using 8/100mm long M.S. Screws through the frame by using anchor fastners. A minimum of 4nos. of screws to be provided for each vertical member & minimum 2nos. for horizontal member etc. complete as per manufactures specification and direction of Engineer-in-charge.</p>	Rmt	500.00
16.63	<p>Providing Factory Made 100% Solid WPC (Wood polymer Composite) Board of 12MM of Single Side Lamination (14 Micron) required size comprising of virign PVC resin of K Value 58-60 (Suspemsion Grade), Calcium Corbonate and natural Fibers (Wood Powders/ rice husk/ wheat husk) and Non toxic additives , made from Extrusion process WPC foam sheet Single Extruded (Inner) with density not less than 550 kg/cbm manufactured by an ISO 9001 - 2015 Certified Company, having good screw holding capacity (Screw Withrawal strength of 1800 N (Face) & 900 N (Edge), Minimum Compressive Stength of 58 N/mm², Modulus of elasticity 900N/mm² and resistance of spread of flam of Class A caegory wih Property of being Termite/ Borer Free</p>	Sqm	1450.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
Water/ Moisture Proof and Fire Retardant and fixinng stainless Steel butt hinges of required size with necessary full body threaded star headed counter sunk SS Screws. All as per direction of Engineer -In-Charge, Material test certificate and authentication should be compulsory provided by the manufacturing company : For KITCHEN CABINET & CUPBOARDS.			
16.64	Providing Factory Made 100% Solid WPC (Wood polymer Composite) Board of 18mm thicknesss of required size comprising of virign PVC resin of K Value 58-60 (Suspemsion Grade), Calcium Corbonate and natural Fibers (Wood Powders/ rice husk/ wheat husk) and Non toxic additives , made from Extrusion process WPC foam sheet Single Extruded (Inner) with density not less than 550 kg/cbm manufactured by an ISO 9001 - 2015 Certified Company, having good screw holding capacity (Screw Withdrawal strength of 1800 N (Face) & 900 N (Edge), Minimum Compressive Strength of 58 N/mm ² , Modulus of elasticity 900N/mm ² and resistance of spread of flam of Class A caegory wih Property of being Termite/ Borer Free.Water/ Moisture Proof and Fire Retardant and fixinng stainless Steel butt hinges of required size with necessary full body threaded star headed counter sunk SS Screws. All as per direction of Engineer -In-Charge, Material test certificate and authentication should be compulsory provided by the manufacturing company : For KITCHEN CABINET & CUPBOARDS..	Sqm	1650.00
16.65	Providing & fixing factory made 100% Solid WPC (Wood Polymer Composite) Door Frame 90mm x 45 mm (Moulded) Single Rebated,, made from Wood Polymer Composite (Single Extruded Process) material comparising of virign PVC polymer of K Value 58-60 (Suspemsion Grade), Calcium Corbonate and Natural Fibers (Wood Powder/ Rice Husk/ Wheat Husk) and Nor toxic additives fabricated with meter Joints after applying PVC solvent Cement & screwed with full body treded star headed srews having minimum frame density of 780 kg/ cbm & manufactured by an ISO 9001 - 2015 Certified Company, having good screw holding capacity (Screw Withdrawal strength of 2200 N (Face) & 1100 N (Edge),	Rmt	550.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
	Minimum Compressive Strength of 58 N/mm ² , Modulus of elasticity 900N/mm ² and resistance to spread of flame of class A category with property of being termite / borer proof , water / Moisture Proof & Fire retardant & Fixed in position with SS Dash Fasteners / Hold Fast of required dia and length, all as per specifications drawings as directed by the Engineer-In-Charge. Material test certificate and authentication should be compulsory provided by the manufacturing company (Hold Fast or Dash Fasteners shall be paid separately)		
16.66	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS:8183, having density 48 kg/m ³ , 50 mm thick, fixed on the roof top with screws, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-charge.	Sqm	179.00

CHAPTER : B-17

ADDITIONAL MISCELLANEOUS ITEMS

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.1	Supply and installation of Multi Rib Proofing/cladding Sheet Manufacture out of 0.50mm TCT (Total Coated Thickness) high tensile Zinc aluminum alloy coated galvalume steel (as per 150gsm zinc aluminum coated 550Mpa tuekd strength) confirming to IS: 1397/astm A-792 sheet to have wide pens 30mm high NB at 250 centre and centre width of 1020mm sheets be casted with regular modified polyster system on a continuous with line on centre for face and with a polyster coating respectively sheet shall have proportionality with siphoned plate made to prevent leakage sheet shall be fixed by more of sell drilling lift tapping hot dip zinc coated hox head fasterner of size 12x14x55mm long. The sheet shall be supplied in cost one length and for a minimum up to 12mts with all scaffolding.	Sqm	689.00
17.1.1	Add extra for 0.60mm TCT (Total Coated Thickness) high tensile Zinc aluminum alloy coated galvalume steel sheet in place of 0.50mm thick	Sqm	15%
17.1.2	Add extra for 0.80mm TCT (Total Coated Thickness) high tensile Zinc aluminum alloy coated galvalume steel sheet in place of 0.50mm thick	Sqm	45%
17.2	<u>Supply and Installation of ROOF – PREFABRICATED INSULATED PPGL FACE PANEL:</u> Roof: Insulated sandwich panels for roof of total thickness mentioned below exclusive of crest height of top corrugation. Panel shall be made of 0.50mm (+/-0.04mm) thick pre coated metal sheet on both sides of rigid polyurethane insulation. The top external facing metal sheet shall have corrugated shape with crest. The trapezoidal shape crowns/crest height should not be less than 30mm. The pre-coated metal sheet shall be PPGL (Pre Painted Galvalume Sheet with AZ coating) sheet having SDP (Super Durable Polyester) colour coat of 18 micron (min). The bottom sheet must have tongue and groove type flange (U shape) of 8mm x 8mm on groove side and 8mm x 12mm on tongue side. Flange must be on lengthwise sides for joining adjacent panels. Panel's bottom side PPGL sheet must also be pre-strengthened by full lengthwise stiffening with semi-circular beading of 12mm width & 3 to 4mm depth at 240 (+/-5) mm pitch. The top corrugated sheet must have at-least one open crown/crest for overlapping adjacent panel widthwise. Similarly the top corrugated sheet must have suitable open extension of min 6" on bottom widthwise side of panel for overlapping further panels joined lengthwise also. The insulation core shall be self-extinguishing DIN 4102,Class B3 fire retardant class rigid PUR with thermal conductivity of 0.025 W/mK and with initial density of 40kg/m ³ (+/-2kg) suitable for temperature range of -30 degree C to +80 degree C. The panel must be made using glue-free high pressure hot pressing self-bonding method. PPGL sheet on both sides of panel shall have a min15 micron protective plastic guard film to avoid scratches during transportation. Thickness 65mm (+/- 2mm) Thickness 105mm (+/- 2mm)	Sqm.	2521.00
		Sqm.	2852.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.3	<p><u>Supply and Installation of WALL – PREFABRICATED INSULATED PPGL PANEL:</u></p> <p>Walls: Insulated sandwich panels for wall of total thickness mentioned below. Panel shall have 0.50mm (+/-0.04mm) thick pre coated metal sheet on both sides of rigid PUR insulation. The pre-coated metal sheet shall be PPGL (Pre Painted Galvalume Sheet with AZ coating) sheet having SDP (Super Durable Polyester) colour coat of 18 micron (min). The panels shall be vertically joined together with adjacent panel by tongue and groove joints. For joining, wall panel's metal sheet facings must have lengthwise flange (U shape) of 8mm x 8mm on groove side and 8mmx12mm on tongue side of panel. The pre-coated metal sheet (PPGL) must also be pre-strengthened by full lengthwise stiffening with semi-circular beading of 12mm width & 3 to 4mm depth at 240 (+/-5) mm pitch. Panels may have optional provision for inbuilt electrical conduit running lengthwise at vertical center of specified panels.</p> <p>The insulation core shall be self-extinguishing DIN 4102, Class B3 fire retardant class rigid PUR with thermal conductivity of 0.025 W/mK and with density of 40kg/m³ (+/-2kg) suitable for temperature range of -30 degree C to +80 degree C. The panel must be made using glue-free high pressure hot pressing self-bonding method. PPGL sheet on both sides of panel shall have a min15 micron protective plastic guard film to avoid scratches during transportation.</p> <p>Thickness 55mm (+/- 2mm) Sqm. 2320.00</p> <p>Thickness 65mm (+/- 2mm) Sqm. 2521.00</p>		
17.4	<p><u>Supply and Installation of WALL – PREFABRICATED INSULATED CEMENT FACE PANEL:</u></p> <p>Factory-readymade structural reinforced insulated wall panel of thickness mentioned below. Panel shall be made of 6mm (+/-0.6mm) thick asbestos-free fiber cement sheet/ Cement bonded particle board as per IS:14276:1995 on both sides of rigid PUR insulation. The wall panel shall be vertically joined together with adjacent panel by biscuit joints lengthwise with suitable construction adhesive. Joining member (biscuit) shall be made of approx 12mm thick cement sheet /Cement bonded particle board as per IS:14276:1995. Panels may have optional provision for inbuilt electrical conduit running lengthwise at vertical center of specified panels. Both vertical lengthwise sides of panels must have full length MS tubes of min 1.0mm thickness for better structural strength. The final panel surface must be free from undulations.</p> <p>The Insulating core shall be self-extinguishing DIN 4102, Class B3 fire retardant class rigid PUR with thermal conductivity of 0.025 W/mK and with density of 40kg/m³ (+/-2kg) suitable for temperature range of -30 degree C to +80 degree C. The panel must be made using glue-free high pressure hot pressing self-bonding method and shall be free from major surface undulations.</p> <p>Thickness 65mm (+/- 2mm) Sqm. 2521.00</p> <p>Thickness 75mm (+/- 2mm) Sqm. 2651.00</p>		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

17.5 Supply and Installation of WALL = PREFABRICATED INSULATED LAMINATED FACE PANEL:

Factory-readymade interior wall panel of thickness mentioned below. The panels shall have suitable provision for joining adjacent panels. Interior panels may have optional provision for inbuilt electrical conduit running lengthwise at vertical center of specified panels. The insulation core shall be self-extinguishing DIN 4102, Class B3 fire retardant class rigid PUR with thermal conductivity of 0.025 W/mK and with density of 40kg/m³ (+/-2kg) suitable for temperature range of -30 degree C to +80 degree C. The panel must be made using glue-free high pressure hot pressing self-bonding method and shall be free from major surface undulations. both sides of panel shall have a min15 micron protective plastic guard film to avoid scratches during transportation.

1. Panel shall be made of min 4mm (+/- 0.5mm) thick laminated wood based medium density fiber board sheet on both sides of rigid PUR insulation.

Thickness 65mm (+/- 2mm) Sqm. 2651.00

Thickness 75mm (+/- 2mm) Sqm. 2781.00

17.6 Supply and Installation of SMALL ROOM (TOILET & GUARD ROOM) – PREFABRICATED INSULATED PPGL FACE PANEL:

Insulated closed lip panels (for door, wall and roof) of thickness mentioned below. Panel shall have 0.50mm (+/-0.04mm) thick pre-coated metal sheet on both sides of rigid PUR insulation. The pre-coated metal sheet shall be PPGL (Pre Painted Galvalume Sheet with AZ coating) sheet having SDP (Super Durable Polyester) colour coat of 18 micron(min). The Pre coated metal sheet on both sides must be pre-strengthened by full lengthwise stiffening with semi-circular beading of 12mm wide & 3mm depth at 240 (+/-5) mm pitch. Panels shall have closed lengthwise sides made by right angle flange on both side of Pre coated metal sheets, free from cap type covers. The top and bottom part on widthwise sides of panels must have full width MS Square tube insert of (min 25mm x 1.0mm) for better screw retention and strength.

The insulation core shall be self-extinguishing DIN 4102, Class B3 fire retardant class rigid PUR with thermal conductivity of 0.025 W/mK and with density of 40kg/m³ (+/-2kg) suitable for temperature range of -30 degree C to +80 degree C. The panel must be made using glue-free high pressure hot pressing self-bonding method free from major undulations. PPGL sheet on both sides of panel shall have a min15 micron protective plastic guard film to avoid scratches during transportation.

Thickness of 32mm (+/-2mm) Sqm. 2261.00

Thickness of 50mm (+/-2mm) Sqm. 2427.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.7	<u>Accessories Supply and Installation of (Labour rate included in main item) Bottom and Top U track :</u> U-track for mounting panels with floor. The channel shall be made from minimum 1.15 mm thick PPGL sheet with flange height of minimum 35 mm and width as per thickness of panel used.	RMT	220.00
17.7.1	<u>Flashings (inner and outer):</u> Corner angle flashings of equal shape for covering various corners and open sides of panels. Flashings shall be made from 0.5mm thick pre-coated PPGL sheet in following sizes: 50mm x 50mm 100mm x 100mm	RMT	165.00
		RMT	220.00
17.7.2	<u>Roof Ridge Cap:</u> Ridge flashing for roof panels shall be made from 0.5mm thick pre-coated PPGL sheet of 200mm x200 mm.	RMT	220.00
17.7.3	<u>Roof Front Corrugated Cap:</u> Front side flashing for roof panels (corrugated trapazodial shape) shall be made from 0.5mm thick pre-coated PPGL sheet.	RMT	220.00
17.7.4	<u>Roof End Cap:</u> End cap for closing ends of roof panels made from 0.5mm thick PPGL sheet.	RMT	165.00
17.7.5	<u>Frame for Door/Window:</u> Frame shall be made out of min 1.15mm thick press steel sheet.	RMT	220.00
17.7.6	<u>Panel End Caps:</u> U or L shape caps suitable for thickness of panel used, with 30mm flange. It should be made frem 0.5mm Pre coated PPGL sheet.	RMT	110.00
17.7.7	<u>Self Drilling Screws:</u> 5" 3.5" 1"	Each	13.00 10.00 6.00
17.7.8	<u>Adhesives</u>	KG.	198.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.8	Supply and fixing of Cement Bonded Particle Board (as per IS 14276) false ceiling using 6MM thick Cement Board with galvanized and pre painted steel T section of size 24mm x 27mm x 0.4mm for main T duty pre punched to accept cross T section of size 24mm x 25mm x 0.4mm duly punched at both ends for insertion into main T. The grid size will be 610mm x 610mm. The frame work (grid) is suspended to the roof by using G.I flat of 0.60mm or 14-gauge G.I wire with necessary fixers to the roof and frame work. Cement Board panel is laded on the grid. The cost inclusive of necessary hardware, labor, one coat of primer (Both side) and two coats of smooth finish on visible side.	Sqm	653.00
17.9	Supply and fixing of Cement Bonded Particle Board (as per IS 14276) wall paneling using 10 MM thick Cement Board with frame work made of GI stud section of size 48mm x 35mm x 0.55mm thick placed at every 610 mm C/C intervals vertically and at 1200mm internals horizontally fixed to the wall by means of self expansion screws and caps. Cement Board panel is to be fixed to frame by means of self taping screws placed at every 300 mm intervals leaving 3mm gap between two panels. The cost inclusive of one coat of Altek primer and two coats of Altek smooth finish and cost & conveyance of all materials, labor charges etc. complete as per the direction of Engineer in charge.	Sqm	1679.00
17.10	Supply and fixing of Cement Bonded Particle Board (as per IS 14276) double skin partition using with 10 MM thick Cement Board made out of G.I. track section of size 50mmx 35mm x 0.55 mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm intervals horizontally fixed to the wall by means of self expansion screws and caps to the wall and roof. Cement Board panel is to be fixed both sides of frame work by using self taping screws fixed at every 300mm intervals to the frame work leaving 3 mm gap between two panels. The cost inclusive with one coat of Alltek primer and two coats of Alltek smooth finish and cost and conveyance of all materials to site, labor charges etc., complete as per the direction of Engineer in charge.	Sqm	2429.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.11	Supply and fixing of Factory Laminated Cement Bonded Particle Board double skin partition using with 10MM Factory Laminated Cement Bonded Board made out of G.I track section of size 50 mm x 35mm x 0.55mm for fixing to the roof and floor and stud section of size 48mm x 35mm x 0.55mm placed in track section vertically at 610mm intervals and at 1200mm internals horizontally. The frame is fixed by means of self expansion screws and caps to the wall / roof. Laminated Cement Bonded Particle Board is to be fixed both sides of the frame work by using 2mm thick electro plated CR flat section leaving 3mm gap between two panels. The cost inclusive of cost and conveyance of all materials to sites, other materials incidentals and labor charges as per the direction of Engineer in charges.	Sqm	3401.00
17.12	Supply and fixing of Bath room / Toilet door shutter with 16mm Factory Laminated Cement Bonded Particle Board BISON Lam (IS 14276) door shutter with all-round 'U' lipping of PPS section of size 12mm X 18mmX 12mmX0.6mm thickness with a hardware of 12mm dia X200mm long aluminum aldrop – 2 nos2 No of 125mm long handles and also 3 no Of IS304 grade Patee Hinges 3mmX12mmX180mm long with pole receiver of 10mm dia pole X40mm long welded on 2mm X40mm(ss304) plates works as receiver for RT patte hinges. The price inclusive of all material at site.	Sqm	2407.00
17.13	<u>Solid Rectangular Block (400x200x200, 400x200x100, 400x200x150, 225x200x100)</u> Providing and fixing up to floor five level of cement concrete solid blocks (M-20 Grade) of different sizes (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand), cost of required centering, shuttering complete.	Cum	10307.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.14	<u>Hollow Rectangular Block (400x200x200, 400x200x100)</u>	Cum	7343.00
	Providing and fixing up to floor five level of cement concrete Hollow Rectangular blocks of different sizes (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand), cost of required centering, shuttering complete.		
17.15	<u>Insulated Rectangular Block (400x200x200 mm)</u>	Cum	10912.00
	Providing and fixing up to floor five level of cement concrete insulated blocks of different sizes having a layer of polysterene as insulating material (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand) including cost of required centering, shuttering complete.		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.16	<u>Interlocking Paver Blocks having 80 mm thickness in M-40 grade concrete</u> Providing and Laying 80 mm thick cement concrete blocks of M-40 Grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds(Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) spreading 25mm thick sand underneath and filling joints with sand on existing W.B.M.base, as per IS15658:2006 and all materials shall conform to MoRTH Specification Clause 602.	Sqm.	1210.00
17.17	<u>Interlocking Paver Blocks having 100 mm thickness in M-50 grade concrete</u> Providing and Laying 100 mm thick cement concrete blocks of M-50 Grade(Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) spreading 25mm thick sand underneath and filling joints with sand on existing W.B.M.base, as per IS15658:2006 and all materials shall conform to MoRTH Specification Clause 602.	Sqm.	1418.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.18	<p><u>Interlocking Paver Blocks having 120 mm thickness in M-50 grade concrete</u></p> <p>Providing and Laying 120 mm thick cement concrete blocks of M-50 Grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) spreading 25mm thick sand underneath and filling joints with sand on existing W.B.M.base, as per IS15658:2006 and all materials shall conform to MoRTH Specification Clause 602.</p>	Sqm	1566.00
17.19	<p><u>Interlocking Paver Blocks having 100 mm thickness in M-55 grade concrete</u></p> <p>Providing and Laying 100 mm thick cement concrete blocks of M-55 Grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) spreading 25mm thick sand underneath and filling joints with sand on existing W.B.M.base, as per IS15658:2006 and all materials shall conform to MoRTH Specification Clause 602.</p>	Sqm	1528.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.20	<u>Interlocking Paver Blocks having 120 mm thickness in M-55 grade concrete</u> Providing and Laying 120 mm thick cement concrete blocks of M-55 Grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) spreading 25mm thick sand underneath and filling joints with sand on existing W.B.M.base, as per IS15658:2006 and all materials shall conform to MoRTH Specification Clause 602.	Sqm.	1638.00
17.21	<u>Kerb Stones of 1200x300x150, 1000x450x150, 1000x600x150, 600x300x150 size (M-30)</u> Providing and Laying cement concrete Kerb Stones of different sizes in M-30 grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) in position to the required line, level and curvature jointed with cement mortar 1:3 (1 Cement : 3 Coarse sand) including making of joints, drainage opening wherever required.	Cum	9429.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.22	Kerb Stones of 1200x300x150, 1000x400x150, 1000x600x150, 600x300x150 size (M-40) Providing and Laying cement concrete Kerb Stones of different sizes in M-40 grade (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) in position to the required line, level and curvature jointed with cement mortar 1:3 (1 Cement : 3 Coarse sand) including making of joints, drainage opening wherever required.	Cum	9974.00
17.23	Cellular Concrete Block for Pitching and garden paths (600x400x80) in M-30 Providing and fixing Cellular concrete blocks (M-30 Grade), 600x400x80 mm sizes (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand), cost of required centering, shuttering complete.	Sqm.	813.00

Chapter Code No	Description			Unit	Rate (Rs.)
1	2			3	4
17.24	<u>Pre Cast Concrete Flooring (Slab 600x600x100, 1000x650x100)</u>				
	Providing and fixing Precast concrete flooring slabs (M-30 Grade) of different sizes (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand), cost of required centering, shuttering complete and spreading 25mm thick sand underneath.		Sqm.	983.00	
17.25	<u>Pre Cast U/Semi circular Drains (Outer size 600x400 mm, wall thickness 80 mm)</u>			R.M.	459.00
	Providing and fixing Precast concrete U-drains (M-30 Grade) of different sizes (Manufactured with fully mechanised dry cast process with forced action mixer whose arms revolve along the main axis and rotate about its own axis also, having humidity sensor for moisture control of w/c ratio in concrete mix. Manufactured with Steel moulds (Milled and manufactured in CSI diamond or CSI Nitro process for accuracy) on steel base plate of min 16 mm thick; Having Vibration and pressing action both together with the help of multiple synchronised vibrators. Power of hydraulic station should be minimum 50KW for compaction and cured in controlled chambers having humidity control and automated air circulation system) including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 Coarse Sand), cost of required centering, shuttering complete and spreading 25mm thick sand underneath.				

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.26	Dry Cleaning of sofa sets using shampooing machine with all materials & drying it do the level using machinery at designated place by engineer-in-charge one seat of sofa (payment for multi seater sofa will be done as the number of seats of that sofa.)		
17.26.1	Single Seater Sofa	Each	154.00
17.26.2	Two Seater Sofa	Each	232.00
17.26.3	Three Seater Sofa	Each	332.00
17.27	Dry Cleaning of Woolen Carpet of any size using shampooing machine with all material & drying it using machinery at the designated place as told by engineer in charge.	Sqm	102.00
17.28	Complete replacement of Tapestry cloth of Sofa set costing @ Rs. 300/- per Mtr. Approx of superior quality including stitching charges (As approved by the Engineer in Charge) as per existing pattern/design.		
17.28.1	Single seater sofa	Each	1449.00
17.28.2	Three seater sofa	Each	3941.00
17.29	Complete replacement of damaged foam of Sofa set and using 100mm thick Joint less P.U. foam in seat of 32 density feather foam of superior quality of approved make (as approved by the Engineer-in-charge) pasted with Adhesive (Rubber Solution) of superior quality.		
17.29.1	Single seater sofa	Each	754.00
17.29.2	Three seater sofa	Each	2113.00
17.30	Complete replacement of damaged foam of Sofa set and using 50mm thick joint less P.U. foam of 32 density feather foam superior quality of approved make (as approved by the Engineer-in-charge) in back duly pasted with Adhesive (Rubber Solution) of superior quality.		
17.30.1	Single seater sofa	Each	453.00
17.30.2	Three seater sofa	Each	1289.00
17.31	Complete replacement of damaged foam of Sofa set and using 25mm thick joint less P.U. foam of 32 density feather foam superior quality of approved make (as approved by the Engineer-in-charge) in Hand rest, in seat and back and design work as required of superior quality.		
17.31.1	Single seater sofa	Each	857.00
17.31.2	Three seater sofa	Each	1817.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.32	Repair of wooden frame of Sofa set using Tat, Nail, Screw, Bolt (if required) and re-assembling sofa set (Cost Including all Consumable Item) complete in all respect as per direction of the Engineer-in-charge		
17.32.1	Single seater sofa	Each	688.00
17.32.2	Three seater sofa	Each	2093.00
17.33	Repair using replacement of Jata, Dori, wooden batten & legs everything in all respect as per approval of Engineer-in-charge.		
17.33.1	Single seater sofa	Each	502.00
17.33.2	Three seater sofa	Each	755.00
17.34	Providing and Fixing machine made Synthetic Carpet having total Carpet weight 850 gm Psqm. and 5mm thickness superior quality complete in all respect as per direction of Engineer-in-charge.	Each	484.00
17.35	Providing and Fixing Chiken wire mesh at the joint of masonry members/ R.C.C. Members with Nails complete in all respect.	Sqm	77.00
17.36	Providing and fixing in position wall panelling at all heights with intergral densified calcium silicate panels/tiles of size 595x595mm, having NRC (Noise Reduction coefficient) of 0.50 minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6& 7), Humidity resistance of 100 %, thermal conductivity <0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e. vertical studs of size 48x34x36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50x32m fixed to the floor and soffit at 600mm centers using 12mm dia, 50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt.	Sqm	2609.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
The joints between the panels are to be duly jointed and finished using recommended jointing calcium silcated based compound and fiber joint tape roll 50mm wide (90 metre) roll and two coats of primer suitable for panelling as per manufacturer's specification as per direcrtion of Enginner-in-Charge all complete.			
17.37	Providing and Fixing powder coated aluminium angle corners of size 75 x 75 x 6mm over extruded/exposed corners of walls/colom etc. fixed with glazing tape on all four sides including filling of all inside edges of 6mm thickness with weather silicone sealant by backer rod of approved quality to make it completely air tight and water tight over the surface as per dirction of Engineer-in-charge.	Rmt	1474.00
17.38	Supply & fixing of one side polished black granite/white marble stone 14-20mm thick of size 3'x2' with engraved and gold colour painted letters (upto 500 letters) & borders including soorsagar white stone pillars of size 0.15x0.15x2.1 Mtr. With moulding, carving & making slot on pillars for fixing of granite stone including loading & unloading with all leads & lifts as per direction of Engineer Inchagre.	Each	15110.00
17.39	Supply & fixing of one side polished black granite/white marble stone 14-20mm thick of size 3'x2' with engraved and gold colour painted letters (upto 500 letters) & borders including dismantalling plaster for fixing stone and finishing the surface including cost of stone and other material, carriage, loading, unloading with all leads & lifts as per direction of Engineer Inchagre.	Each	11110.00
17.40	Providing and fixing Glass Brick with adhesive in line and length complete as per drawing and design and asapproved by Engineer-in-Charge.	Sqm	4900.00
17.41	Repairing of High Back, Low Back and Medium Back Revolving Padded Chair including required all material complete in all respect as per directin of the Engineer-in-Charge.		
17.41.1	Replacing/Adding 25mm thick P.U. Sleep Well Foam of 32 Density in seat & back as per existing pattern (pasted with Rubber Solution)		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
(i)	Low Back Chair	Each	94.00
(ii)	Medium Back Chair	Each	119.00
(iii)	High Back Chair	Each	135.00
17.41.2	Replacement/pasting of leatherite seat as per approved sample costing @ Rs. 300/- per Mtr. (Appx) as approved by the Engineer in Charge.		
(i)	Low Back Chair	Each	640.00
(ii)	Medium Back Chair	Each	901.00
(iii)	High Back Chair	Each	1247.00
17.41.3	Repair of Chair of NYLON wheel including all material of fixing and labour Charge.	Each	72.00
17.41.4	Replacing Bolt/Screw (of existing pattern) in the chair.	Each	15.00
17.41.5	Repair/Change of Gas lift mechanism use for adjustment purpose with fitting material and labour charges.	Each	495.00
17.41.6	Repair/Change of Chrome base plate including all material of fixing and labour charge.	Each	792.00
17.41.7	Repair/ Change of PU handle including all material of fixing and labour charge .	Each	495.00
17.42	Repair and polish work of peacock chair/padded chair including required all material complete in all respect as per direction of the Engineer in Charge.		
17.42.1	Replacing/Adding 25mm thick P.U. sleep well foam of 32 Density in seat & back as per existing pattern (Pasted with Rubber solution)	Each	149.00
17.42.2	Replacement of Baniyan foam/tapestry cloth in seat as per approved sample costing @ Rs. 200/- per Mtr. (Appx.) as approved by the Engineer in Charge.	Each	206.00
17.42.3	Replacing lining cloth in bottom of the chair with nail/screw/fevicol etc. of existing type & pattern.	Each	34.00
17.42.4	Replacing bolt/screw (of existing pattern) in the chair.	Each	15.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.42.5	Repair of wooden frame of chair including required raw material i.e. replacement of teak wood arms, legs, wooden required including tightening work as per existing pattern complete in all respect.	Each	349.00
17.42.6	Spirit polish on wooden chair with rubbing old surface cleaning and good finishing inlucding cost of polish material.	Each	108.00
17.43	Supplying, Filling and stitching of empty cement bags either of plastic or jute with earth avaiable at site of wieght not less than 40 kg including stacking and removing.	Per Bag	7.00
17.44	Supplying and Spreading 25 to 30mm thick layer of Screened approved Samod Bajari of Uniform colour from approved quarry with all lead.	Per Cum	2150.00
17.45	Labour Charge for providing and fixing 20' long 2" dia G.I. pipe with flags (Flags to be provided by department) in straight line etc. as per direction and removing all the flags complete before sunset as per direction of Engineer in charge.	Each	260.00
17.46	P/F wall mounted foldable hinged (Grab rail) size 750mm x 100mm (LxW) as approved design, made of 35mm stainless steel pipe having anti-bacterial Nylon surface with contour finish for better grip. Grab bar should be mounted on wall between height 200mm to 250mm from the top of W.C seat and extending 100mm to 150mm beyond the front of the W.C. Complete in all respect as per Harmonized guideline & Satisfaction of Engineer-in-Charge. Cera make (B2210108)	Nos	7000.00
17.47	P/f wall mounted inverted L Shaped grab bar with 700mm long bar as approved design, made of 35mm stainless steel pipe having anti-bacterial Nylon surface with contour finish for better grip. Grab bar should be mounted on wall at height of 700mm from the finish floor level complete in all respect as per Harmonized guidline & Satisfaction of Engineer-in-Charge. Cera make (B2210103)	Nos	2300.00
17.48	P/F wall mounted 600mm long grab bar as approved design, made of 35mm stainless stell pipe having anti-bacterial Nylon surface with contour finish for better grip. Grab bar should be mounted on wall at height of 800mm from the finish floor level complete in all respect as per Harmonized guidline & Satification of Engineer-in Charges. Make Cera (B2210106)	Nos	1678.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
17.49	Supply and fixing of solid stainless steel grade 304 C type door handle of dia 32mm length 600 (outside measurement) having hole dia 14 mm of with i/c key arrangement.	Nos	2860.00
17.50	Repair to damaged plaster with high performance curing free, quick setting cement mortar & confirming to ASTM C 1600 in ratio of 1:4 with following properties of cement : Compressive strength of 20 MPa within 4 Hours, Curing free, bond strength of 4 MPa within 24 Hours, Non shrink & Non toxic in following steps- (i) Chopping loose and cracked plaster to required depth, cleaning the exposed surface with wire brush, cleaning of plaster surface with water as necessary and getting dried. (ii) Plastering the surface with above mentioned high performance cement sand mortar 1:4 upto depth of 25 mm complete with all scaffolding. (iii) No curing has to be done as the high performance cement used should be curing free. (This item is to be used in only emergency situation after decided by Engineer in charge)	Sqm	957.00
17.51	Providing and laying treatment of wear & tear concrete surface with pre-mixed, ready to use, geopolymer based mortar & confirming to ASTM C 1600 upto 10 mm thickness with following property – (i) Curing Free, compressive strength of 15 MPa within 2 hours, Quick Setting, bond strength of 4 MPa within 24 hours and repaired surface should be ready to use within 3 hours. Note (This item is to be used in only emergency situation after decided by Engineer in charge)	Sqm	3184.00
17.52	Providing and applying treatment of plaster and masonry cracks with pre-mixed, ready to use, geo polymer based mortar & confirming to ASTM C 1600 upto 15 mm width and 15 mm depth by making V-Groove with following property – (i) Curing Free, compressive strength of 15 MPa within 2 hours, Quick Setting and with bond strength of 4 MPa within 24 hours with all scaffolding. Note (This item is to be used in only emergency situation after decided by Engineer in charge)	Rmt.	195.00

CHAPTER : S-1

SANITARY INSTALLATION WORK

NOTE: All items which are manufactured ISI marked, shall only be used. this condition shall be always incorporated in special condition of contract.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

WATER CLOSETS

1.1	P. & F Squatting Pan (Indian type) white glazed vitreous china 1st quality W.C. Pan (IS : 2556 Mark) with 100 mm vitreous china P or S trap including cutting and making good the wall and floor (excluding the pair of foot rest.)	Each	980.00
1.1.1	Size 450mm.	Each	1069.00
1.1.2	Size 510 mm	Each	1113.00
1.1.3	Size 580mm	Each	
1.2	P & F <i>Indian type</i> white glazed vitreous china 1 st quality W.C. orissa pan (IS :2556 Mark) with 100 mm vitreous china P or S trap including cutting and making good the wall and floor:	Each	2640.00
1.2.1	Size 530x410mm.	Each	3080.00
1.2.2	Size 580x440mm.	Each	
1.3	P & F European type white glazed vitreous china 1 st quality W.C pan (IS : 2556 Mark) with P or S trap including cutting and making good the wall and floor	Each	2420.00
1.4	P & F European type white glazed vitreous china 1st quality Double syphonic W.C (IS :2556 Mark) with P or S trap including cutting and making good the wall and floor	Each	5198.00
1.5	P & F Universal (anglo-Indian type) white glazed vitreous china W.C. pan 1 st quality (IS 2556 Marked) with P or S trap including cutting and making good the wall and floor.	Each	4068.00
1.6	P & F <i>European type</i> white glazed vitreous china 1 st quality W.C. (IS : 2556 Mark) including cutting and making good the wall and floor	Each	3457.00
1.6.1	Wall Mounting	Each	3879.00
1.6.2	Wall Mounting (extended)	Each	
1.6.3	Wall Mounting (syphonic)	Each	4441.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

Note :-

- (A) Add extra over item No. 1.1 to 1.7, 1.14, 1.15, 1.19, 1.22 ,1.23,1.38 & 1.42 for using approved light coloured vitreous china ware i.e. ivory champagne , perl , soft green , soft blue ,pink ,light grey etc. instead of white vitreous chinaware.
- (B) Add extra over item No.1.1 to 1.7, 1.14, 1.15, 1.19, 1.22 ,1.23,1.38 & 1.42 for using approved dark colored vitreous china ware i.e. Cherry Red , Dark blue, Jet black, Magenta, Burgandy instead of white vitreous chinaware.
- 1.7 P & F water closet Seat Covers with brass hinges complete :
- | | | | |
|-------|---|------|--------|
| 1.7.1 | Solid PVC (IS 2548 marked) grade-I Black for EWC. | Each | 402.00 |
| 1.7.2 | -do- White. | Each | 485.00 |
| 1.7.3 | -do- Coloured. | Each | 501.00 |
| 1.7.4 | -do- White. | Each | 352.00 |
| 1.7.5 | -do- Coloured. | Each | 402.00 |
- 1.8 P & F C.P. lugs for toilet seat cover. Pair 79.00
- 1.9 Labour charges for removing W.C. pan (any type) of all sizes with care including all necessary fittings P or S trap. Each 286.00
- 1.10 P & F White glazed Conversion Bend for W.C. from P trap to S trap. . Each 146.00
- 1.11 P & F vitreous china P trap of approved quality Each 215.00
- 1.12 Add extra if C.I.P trap is used in place of Vitreous china P trap for W.C. Each 544.00
- 1.13 P & F White Vitreous China *Double Syphonic European* W.C. (IS:2556Mark) with mounted W.V.C. flushing cistern of (IS : 2556 Mark) of 10 litre capacity complete with all necessary internal fittings including cutting and making good the wall and floor. Each 12114.00
- URINALS:**
- 1.14 P & F 1st quality WVC Urinal (IS:2556 mark) with 25mm dia G.I. waste pipe, dome waste couplings, concealed iron brackets or screws etc complete.
- | | | | |
|--------|--|------|---------|
| 1.14.1 | Flat Back (small) size 456x355x265mm. | Each | 1832.00 |
| 1.14.2 | Flat Back (large) or half stall size 610x400x80mm. | Each | 4637.00 |
| 1.14.3 | Mini stall size 455x385x350mm. | Each | 2287.00 |

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.15	P & F W.V.C. <i>Urinal Partition Plate</i> of approved standard make of size 630x315mm including making good the wall.	Each	994.00
1.16	P&F Marble <i>Urinal Partition slab</i> both sides polished of approved design cut from marble size 900x600mm.		
1.16.1	Makrana II quality marble having light spots	Each	923.00
1.16.2	Makrana `Albeta` Marble having light streaks.	Each	862.00
1.16.3	Makrana `Adanga` or Raj Nagar 1 st Quality White or Andhi Indo-Italian marble.	Each	801.00
1.17	P & F W.V.C. <i>Half-Round Channel</i> of approved make in C.M. 1:3, joints finished in white cement of:		
1.17.1	Size 100mm dia.	Mtr.	585.00
1.17.2	Size 150mm dia.	Mtr.	757.00
1.18	P & F W.V.C. (IS: 2556 Mark) <i>Squatting Urinal</i> of standard make complete. Including cutting & making good the floor:		
1.18.1	Size 450x350mm	Each	853.00
1.19	Labour charges for removing and refixing of urinals (all type & sizes) including all necessary fittings.	Each	339.00
1.20	P & F <i>Low level Flushing Cistern</i> of 10 litres capacity (IS : 2556 mark) of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball (IS: 1703 mark) complete including cutting and making good the wall:		
1.20.1	WVC with C.P. brass bend.	Each	2483.00
1.20.2	PVC with PVC bend as per IS : 7231 .	Each	1291.00
1.20.3	PVC with PVC bend and superior internal fittings as per IS : 7231 .	Each	1645.00
1.20.4	WVC for symphonic EWC.	Each	2599.00
1.20.5	PVC with CP brass long band as per IS : 7231 .	Each	1491.00
1.21	P & F <i>Automatic Flushing Cistern</i> of first quality (IS : 774 mark) of approved make fitting, siphon with copper tube, C.I. brackets complete including cutting and making good the wall. WVC (as per IS : 2556) 10 litres.	Each	1087.00
Note :-	Deduct if plastic syphon is used.	Each	90.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.22	P & F <i>Flush Pipe</i> of approved make with complete fittings for high level flushing cistern:		
1.22.1	G.I. `B` class (Concealed) 25mm.	Each	439.00
1.22.2	G.I. `B` class (Concealed) 32 mm.	Each	513.00
1.22.3	PVC exposed (heavy) 32mm.	Each	168.00
1.22.4	GI (Sheet) hot galvanized exposed (10 litres).	Each	254.00
1.23	P & F WVC (10 litres) low-level flushing cistern with cover.	Each	828.00
1.24	P & F WVC (10 litres) low-level flushing cistern cover only	Each	306.00
1.25	P & F WVC siphon with plunger plate only.	Each	244.00
1.26	P & F WVC Auto cistern with cover only.	Each	462.00
1.27	P & F WVC Auto cistern cover only.	Each	145.00
1.28	P & F C.P. brass <i>Urinal Flush Pipe</i> set complete with flanged brackets of approved make.		
1.28.1	For 4 Urinals	Each	1331.00
1.28.2	For 3 Urinals	Each	1068.00
1.28.3	For 2 Urinals	Each	736.00
1.28.4	For 1 Urinal	Each	504.00
1.29.1	P & F C.P. brass <i>Urinal Spreader</i> for stall urinal of approved make.	Each	363.00
1.29.2	P & F Synthetic (PTMT) Urinal Spreader for stall urinal of approved make.	Each	246.00
1.30.1	P & F C.P. brass <i>Doom Waste Coupling</i> 32 mm dia.	Each	152.00
1.30.2	P & F C.P. brass <i>Doom Waste Coupling</i> 40 mm dia.	Each	206.00
1.31	P & F <i>Plastic Siphon</i> of approved make for automatic flush tank.	Each	157.00
1.32	P & F Copper tube Siphon for auto flush tank.	Each	375.00
1.33	Removing and re-fixing of wash hand basin including all necessary fittings.	Each	239.00
1.34	P & F metal brackets duly painted including cutting & making good the wall.	Pair	165.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.35	P & F C.P. Brass flush Valve with C.P. flush bend of approved make.		
1.35.1	Lever type with Elbow 32 mm dia	Each	3072.00
1.35.2	Push type with Elbow 32 mm dia	Each	3209.00
1.35.3	Concealed type for 115 mm thick wall	Each	3674.00
1.35.4	Concealed type for 230 mm thick wall	Each	3793.00
1.35.5	Economy model 25 mm dia.	Each	2196.00
1.35.6	Economy model 32 mm dia.	Each	2404.00

WASH BASINS:

1.36	P & F WVC Wash basin (Ist quality IS:2556 Mark) of approved make with C.I. brackets duly painted 1 No. 15 mm C.P. Pillar cock (IS:8934 Mark) & 32 mm C.P. brass waste coupling of approved make, P.V.C Waste pipe with PVC nut 32 mm complete including cutting & making good the wall :		
1.36.1	Size 450 mm x 300 mm	Each	2268.00
1.36.2	Size 510 mm x 400 mm	Each	2408.00
1.36.3	Size 550 mm x 400 mm	Each	2598.00
1.36.4	Size 580 mm x 450 mm	Each	2745.00
1.36.5	Size 610 mm x 510 mm	Each	3477.00
1.36.6	Size 400 mm x 400 mm or 450 mm x 390 mm Corner	Each	2232.00
1.36.7	460 dia for counter top	Each	2957.00
1.36.8	Size 550 mm x 400 mm dia for counter top	Each	2994.00
1.36.9	Size 630 mm x 500 mm dia for counter top	Each	3265.00
1.36.10	Add extra for using 25mm GI waste pipe instead of PVC waste pipe	Each	90.00
1.37	P & F Terrazzo (Mosaic) wash hand basin with supporting brackets waste coupling and PVC waste pipe complete, including painting of brackets making good the walls:		
1.37.1	450 mm x 280 mm	Each	1058.00
1.37.2	550 mm x 400 mm	Each	1142.00

KITCHEN & LAB. SINKS:

1.38	P & F Kitchen & Lab. Sink of approved make with C.I. brackets duly painted, 40 mm C.P. waste coupling, C.P. Brass chain with rubber plug, 40 mm G.I. waste pipe up-to floor level complete including cutting and making good the wall & floor :		
1.38.1	Fire clay glazed kitchen sink (I.S 771-1985 Marked) size 600 x 450 x 250mm.	Each	3890.00
1.38.2	Fire clay glazed kitchen sink (I.S 771-1985 Marked) size 600 x 450 x 200 mm.	Each	3743.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.38.3	WVC Lab sink (IS:2556 mark) size 530 x 430 x 180 mm	Each	2754.00
1.38.4	WVC Lab sink (IS:2556 mark) size 500 x 350 x 150 mm	Each	2278.00
1.38.5	WVC Lab sink (IS:2556 mark) size 450 x 300 x 150 mm	Each	2059.00
1.38.6	Mosaic fine polished kitchen sink size 600 x 450 x 200mm.	Each	1619.00
1.38.7	Mosaic fine polished kitchen sink size 450 x 450 x 200mm.	Each	1430.00
1.38.8	Mosaic fine polished kitchen sink size 600 x 450 x 200 mm with 600 x 450mm drain board	Each	1839.00
1.38.9	1.0 mm thick stainless steel AISI -304 & IS 13983-1994 kitchen sink of approved make as per Engineer-in-charge with large waste coupling.		
	Overall size Bowl size		
	(inches) (inches)		
1.38.9.1	18 x 16 x 6 16x14x6	Each	3817.00
1.38.9.2	22 x 18 x 7 20x16x7	Each	4330.00
1.38.9.3	24 x 18 x 8 20x16x8	Each	5062.00
1.38.9.4	37 x 18 x 7 17x15x7 (with drain board)	Each	5576.00
1.38.9.5	45 x 20 x 8 20x16x8 (with drain board)	Each	8725.00
Note :-	Deduct for item No 1.40.9 for using any other make than specified above.	Each	35%

- 1.39 P & F *Drain Board* of approved make with C.I. brackets duly painted complete including cutting & making good the wall:
- | | | | |
|--------|--|------|---------|
| 1.39.1 | WVC (I.S.: 2556 Mark) size 530 x 450mm | Each | 1200.00 |
| 1.39.2 | Mosaic fine polished size 600 x 450 | Each | 407.00 |
| 1.40 | P & F 1 st quality WVC pedestal for wash basin. | Each | 1444.00 |

MISCELLANEOUS

- | | | | |
|--------|--|------|--------|
| 1.41 | P & F Bottle Trap of approved make : | | |
| 1.41.1 | C.P Brass 32 mm | Each | 584.00 |
| 1.41.2 | C.P Brass 40 mm | Each | 633.00 |
| 1.41.3 | Synthetic Material (PTMT)32 mm | Each | 512.00 |
| 1.41.4 | Synthetic Material (PTMT)42 mm | Each | 572.00 |
| 1.41.5 | P.V.C | Each | 130.00 |
| 1.42 | P& F waste Coupling with fittings of approved quality /make: | | |
| 1.42.1 | C.P Brass 32 mm dia | Each | 143.00 |
| 1.42.2 | C.P Brass 40 mm dia | Each | 218.00 |
| 1.42.3 | C.P. Brass 50 mm dia | Each | 262.00 |
| 1.42.4 | SS 125 mm | Each | 305.00 |

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.43	P& F waste Pipe with all fitting		
1.43.1	P.V.C with C.P nut 32 mm	Each	145.00
1.43.2	P.V.C with PVC nut 32 mm	Each	61.00
1.43.3	P.V.C. with C.P. nut 40 mm dia	Each	157.00
1.43.4	G.I(B class) 32mm	Each	224.00
1.43.5	G.I(B class) 40 mm	Each	297.00
1.44	P & F <i>Bevelled edge Mirror/mirror with teak wood lipping around</i> of special glass of approved make as per direction of Engineer-in-charge complete with 6mm thick commercial ply base fixed to wooden screws & washers.		
1.44.1	Size 600 x 450mm x 4 mm thick	Each	575.00
1.44.2	Other sizes	Sqm.	1538.00
Note :-	For other quality mirrors from approved make mirrors deduct 30%		
1.45	P & F <i>Looking Mirrors</i> with P.V.C. frame of approved make as per direction of Engineer-in-charge		
1.45.1	Size 500x400mm	Each	351.00
1.45.2	Oval shape 450x350 mm	Each	514.00
1.45.3	Round 500mm dia	Each	549.00
Note :-	For other quality mirrors from approved make mirrors deduct 30%		
1.46	P & F Toilet Shelf of approved quality/make:		
1.46.1	W.V.C. (I.S.: 2556 Mark) Size 300mm	Each	440.00
1.46.2	W.V.C. (I.S.: 2556 Mark) Size 550 mm	Each	520.00
1.46.3	Synthetic Material with tumbler of approved quality/make size 470 x 114 x 36mm	Each	431.00
1.46.4	Hard Plastic of approved make as per direction of EI of size 590x140mm	Each	520.00
1.46.5	Acrylic shelf on C.P. brass casted brackets & guard rail of approved make as per direction of EI of size 550x125mm	Each	997.00
1.46.6	Glass Shelf with edges rounded off Anodised Aluminium angle frame & C.P. brass brackets & guard rail size 600x120mm	Each	361.00
1.47	P & F <i>Towel Rail or Ring</i> of approved quality/make:		
1.47.1	C.P. brass Towel Rail elbow type with concealed screws size 450mm (Heavy duty).	Each	468.00
1.47.2	C.P. brass Towel Rail elbow type with concealed screws size 600 mm (Heavy duty).	Each	516.00
1.47.3	C.P. brass towel rail with brackets 450 x 20mm.	Each	296.00
1.47.4	C.P. brass towel rail with brackets 600 x 20mm.	Each	337.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.47.5	Synthetic Material(PTMT) of approved quality/make size 525 x90 x 75mm	Each	152.00
1.47.6	Synthetic Material(PTMT) of approved quality/make size 675 x90 x 75mm	Each	165.00
1.47.7	WVC (1 st quality, IS2556 Marked) of approved make. Recessed towel Hanger size 108 x 108mm.	Each	144.00
1.47.8	C.P. Brass Towel Ring revolving type	Each	254.00
1.47.9	Synthetic Material (PTMT) Towel Ring of approved quality/make.	Each	165.00
1.48	P & F Grating of approved quality/make:		
1.48.1	Stainless Steel Sheet size 125mm dia.	Each	62.00
1.48.2	Stainless Steel Sheet size 125mm dia. Heavy Quality of approved make	Each	97.00
1.48.3	Synthetic Material(PTMT) of approved quality/make size 125mm dia.	Each	89.00
1.48.4	(-do-) 150mm dia.	Each	97.00
1.48.5	(-do-) Square 150 x 150 x 8mm. (Anti Cockroach)	Each	358.00
1.48.6	C.P. brass with frame (Heavy) & superior quality size 125mm dia.	Each	131.00
1.48.7	(-do-) Light & superior quality size 125mm dia	Each	55.00
1.48.8	Cast Iron.	Each	69.00
1.49	P & F <i>Liquid Soap Container</i> with brackets complete of approved make:		
1.49.1	C.P. brass	Each	238.00
1.49.2	Synthetic Material of approved quality/make:	Each	164.00
1.50	P & F <i>Tooth Paste & Brush Holder</i> of approved quality/make:		
1.50.1	C.P. brass	Each	127.00
1.50.2	C.P. brass (Heavy and Superior quality)	Each	520.00
1.50.3	Stainless Steel	Each	319.00
1.51	P & F <i>Toilet Paper Holder</i> with rod of approved quality/make:		
1.51.1	C.P. brass	Each	223.00
1.51.2	C.P. brass heavy & Superior quality.	Each	602.00
1.51.3	WVC (1 st quality, IS 2556 Marked) recessed size 150x150mm.	Each	305.00
1.51.4	(-do-) exposed (-do-)	Each	238.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.52	P & F Soap Dish or Tray of approved quality/make		
1.52.1	C.P. brass	Each	127.00
1.52.2	C.P. brass heavy and superior quality.	Each	156.00
1.52.3	WVC (1 st Quality, IS 2556 Marked) recessed size 150 x 150 mm.	Each	283.00
1.52.4	(-do-) 200 x100mm.	Each	327.00
1.52.5	(-do-) Soap tray 170mm.	Each	245.00
1.52.6	(-do-) Soap Dish 380mm.	Each	327.00
1.53	P & F Twin- peg of approved quality / make		
1.53.1	C.P. brass	Each	79.00
1.53.2	C.P. brass (heavy)Superior quality	Each	149.00
1.53.3	Acrylic	Each	76.00
1.54	P & F Shower arm 15mm dia of approved quality/make.		
1.54.1	C.P.brass heavy & superior quality 150mm Projection.	Each	198.00
1.54.2	(-do-) size 220mm(-do-)	Each	307.00
1.54.3	(-do-) size 300mm.(-do-)	Each	337.00
1.54.4	(-do-) size 370mm.(-do-)	Each	376.00
1.55	P & F Bath Shower of approved quality/make.		
1.55.1	C.P. brass fixed.	Each	149.00
1.55.2	C.P. brass of Heavy & superior quality 150mm.	Each	376.00
1.55.3	C.P. brass of Heavy & superior quality, revolving with adjustable key 150mm.	Each	573.00
1.56	P & F Extension Pipe for bib cocks of approved quality/make.		
1.56.1	C.P. brass of Heavy & Superior quality 50x15mm	Each	85.00
1.56.2	(-do-) 100 X 15mm.	Each	119.00
1.56.3	(-do-) 150 X 15mm.	Each	168.00
1.57	P & F Acrylic Toilet accessories set consisting of Towel rail, shelf, towel ring, soap dish, paste & brush holder & twin peg of approved quality/make.	Each	1179.00
1.58	Labour Charges for removing WVC pan:		
1.58.1	Indian/Orissa pan	Each	227.00
1.58.2	European W.C.	Each	227.00
1.58.3	Flushing cistern	Each	96.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.59	P & F Jet spray for water closet with C.P. Copper Tube flange of approved make.	Each	381.00
1.60	Providing & fixing C.P.flange for 15mm dia taps.	Each	18.00
1.61	Providing and fixing 1st quality standard white, grey, ivory, fume red brown, light green, light blue and other light shades glazed tiles confirming to code IS : 15622 of size 200mm x 300mm in walls, floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (excluding the cost of cement plaster on walls and pillar).	Sqm.	674.00
1.62	Providing and fixing 1st quality MAT finished ceremic tile size 300x300mm confirming to code IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed 1:4).	Sqm.	748.00
1.63	Extra for using Marble printed / Granite shade or dark shade tiles instead of white, grey, ivory, fume red brown, light green, light blue and other light shades in glazed tiles and MAT finished tiles.	Sqm	10%
1.64	Extra for using size above 200x300mm in glazed tiles and for using 400mm x 400mm MAT finished tiles in place of 300mm x 300mm size.	Sqm	10%
1.65	P & F C.P. Health Faucet with 1Mtr. Long Tube & Hook of approved make and heavy as per direction of Enginner-in-Charge	Each	605.00
1.66	P & F C.P. brass Urinal Spreader for Large Urinal of heavy duty of approved make as per direction of Enginner-in-Charge	Each	617.00
1.67	Removing & Re fixing of P.V.C. Cistern fittings (Syphon, Ball cock & Handle Set) complete as per direction of Enginner-in-Charge	Each	468.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.68	Providing & Fixing Premium Quality white glazed vitreous china Sanitary Wares (IS:2556 Mark) of approved make as per direction of Engineer-in-charge including cutting and making good the wall and floor.		
1.68.1	W.C. orissa pan with 100 mm vitreous china P or S trap (Size 580x440 mm.)	Each	3065.00
1.68.2	Universal (anglo-Indian type) with P or S trap	Each	6386.00
1.68.3	Wall Mounting European type W.C.	Each	9072.00
1.68.4	Double Syphonic European W.C. with mounted W.V.C. flushing cistern of 10 litre capacity complete with all necessary internal fittings with Hydraulic seat cover.	Each	17839.00
1.69	Providing & Fixing premium qualaity WVC Urinal with PVC waste pipe, dome couplings, concealed iron brackets or screws etc. complete.		
1.69.1	Flat Back (small) size 440x265x315 mm.	Each	2619.00
1.69.2	Flat Back (large) or half stall size 590x375x390 mm.	Each	6246.00
1.70	Providing & Fixing premium qualaity W.V.C. Urinal Partition plate of size 630x315 mm	Each	2636.00
1.71	Providing & Fixing premium qualaity WVC Wash basin with C.I. brackets duly painted & 32 mm C.P. brass waste coupling of approved make with PVC waste pipe complete		
1.71.1	Size 550 mm x 400 mm	Each	2334.00
1.71.2	Size 550 mm x 400 mm dia for counter top.	Each	3372.00
1.72	P & F Premiumquality water closet Seat Covers with brass hinges complete Solid PVC (ISI marked) grade-I White for EWC.	Each	714.00
1.73	P & F Premium quality Low level Flushing Cistern of 10 litres capacity (IS:2556 mark) of approved make as per Engineer-in-charge with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS:1703 mark) complete including cutting and making good the wall :	Each	1823.00
1.74	P&F Looking Mirror 5mm thick of approved make with ornamental frame size 50x12 with 6mm Ply Board on Back Side Complete as per approved sample	Sqm	2544.00
1.75	Supply of Hydraulic Seat Cover for Europeon WC of superior quality approved make in white Colour	Each	4057.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.76	Providing & Fixing chair for wall hung W.C.	Each	1604.00
1.77	Providing & Fixing Concealed cistern with Floor mounting frame and flush plate of superior quality and approved sample by Engineer-in-charge.	Each	8187.00
1.78	Providing and fixing new spindle for Bib cock/pillar cock for repairing purpose to solve leakage and proper functioning of tap.	Each	114.00
1.79	Providing & Fixing premium quality Toilet corner Glass Shelf size 225x225mm with C.P. brass brackets & guard rail edges rounded of SS frame	Each	1562.00
1.80	Providing & Fixing premium quality waste coupling 32mm half thread as per approved by Engineer in Charge.	Each	519.00
1.81	Providing & Fixing Premium quality Bottle trap internal portion 32mm, size 250mm long wall connection pipe & wall flange as per approved by Engineer in Charge.	Each	1599.00

CHAPTER : S-2

WATER SUPPLY INSTALLATION

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

GALVANISED IRON PIPES

2.1	P & F G.I. pipes (<i>Internal Work</i>) with G.I. Fittings excluding union (IS:1239 Mark) & MS clamps including cutting and making good the walls and floors:		
(a)	Exposed on wall		
2.1.1	15 mm dia nominal bore		
	'A' Class	Mtr.	202.00
	'B' Class	Mtr.	230.00
2.1.2	20mm dia nominal bore		
	'A' Class	Mtr.	264.00
	'B' Class	Mtr.	282.00
2.1.3	25mm dia nominal bore		
	'A' Class	Mtr.	326.00
	'B' Class	Mtr.	360.00
2.1.4	32mm dia nominal bore		
	'A' Class	Mtr.	358.00
	'B' Class	Mtr.	436.00
2.1.5	40mm dia nominal bore		
	'A' Class	Mtr.	490.00
	'B' Class	Mtr.	531.00
2.1.6	50mm dia nominal bore		
	'A' Class	Mtr.	606.00
	'B' Class	Mtr.	673.00
2.1.7	65mm dia nominal bore		
	'A' Class	Mtr.	734.00
	'B' Class	Mtr.	793.00
2.1.8	80mm dia nominal bore		
	'A' Class	Mtr.	838.00
	'B' Class	Mtr.	963.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
(b) Concealed pipe in wall including painting with anticorrosive bitumen paint			
2.1.9 15 mm dia nominal bore			
'A' Class		Mtr.	217.00
'B' Class		Mtr.	242.00
2.1.10 20mm dia nominal bore			
'A' Class		Mtr	261.00
'B' Class		Mtr	278.00
2.1.11 25mm dia nominal bore			
2.1.11.1 A' Class		Mtr	342.00
2.1.11.2 B' Class		Mtr	429.00
2.2 P & F G.I. Pipes (<i>External Work</i>) with G.I. fittings excluding union (IS : 1239 Mark) including trenching & refilling earth etc.			
2.2.1 15mm dia nominal bore			
'A' Class		Mtr.	163.00
'B' Class		Mtr.	190.00
2.2.2 20mm dia nominal bore			
'A' Class		Mtr.	206.00
'B' Class		Mtr.	222.00
2.2.3 25mm dia nominal bore			
'A' Class		Mtr.	245.00
'B' Class		Mtr.	278.00
2.2.4 32mm dia nominal bore			
'A' Class		Mtr.	303.00
'B' Class		Mtr.	342.00
2.2.5 40mm dia nominal bore			
'A' Class		Mtr.	362.00
'B' Class		Mtr.	395.00
2.2.6 50mm dia nominal bore			
'A' Class		Mtr.	436.00
'B' Class		Mtr.	491.00
2.2.7 65mm dia nominal bore			
'A' Class		Mtr.	576.00
'B' Class		Mtr.	622.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.2.8	80mm dia nominal bore		
	'A' Class	Mtr.	666.00
	'B' Class	Mtr.	772.00
2.2.9	100mm dia nominal bore		
	'A' Class	Mtr.	893.00
	'B' Class	Mtr.	1064.00
2.2.10	125mm dia nominal bore		
	'A' Class	Mtr.	1297.00
	'B' Class	Mtr.	1455.00
2.3	Making connection of G.I. distribution branch with G.I. main including all fitting.		
2.3.1	Upto 25mm dia	Each	265.00
2.3.2	Beyond 25mm & upto 100mm dia	Each	389.00
2.4	Fixing water meter (IS: 779 mark) and stop cock in G.I. pipe line including making chamber of approved size excluding cost of water meter & stop cock.	Each	308.00
2.5	P & F water meter (IS : 779 mark) of approved make.		
2.5.1	15mm dia	Each	949.00
2.5.2	20mm dia	Each	1734.00
2.5.3	25 mm dia	Each	2378.00

COCKS, MIXERS, DIVERTORS & VALVES

Note:

- (a) The rates are for ISI marked item.
- (b) If the items are Non- ISI marked, reduce the rate by 25%.

2.6	P & F Pillar Cocks (IS :8931 : 1993 Mark) of superior quality and approved make:		
2.6.1	C.P. Pillar cock, 15 mm dia nominal bore	Each	779.00
2.6.2	C.P. Pillar cock Elbow action, 15 mm nominal bore.	Each	820.00
2.6.3	C.P. Pillar cock fancy type ,15mm nominal bore.	Each	914.00
2.6.4	C.P. Pillar cock, Swan-neck with casted spout, 15mm nominal bore.	Each	1246.00
2.6.5	C.P. Pillar cock, high-neck, 15 mm nominal bore.	Each	779.00
2.6.6	Synthetic Material (PTMT) Pillar cock of approved quality / make 15mm nominal bore.	Each	388.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.7	P & F Bib Cock (IS : 8931 Mark), Superior quality of approved make:		
2.7.1	Brass 400 gm,15mm nominal bore.	Each	298.00
2.7.2	P.V.C.heavy duty, 15mm nominal bore.	Each	106.00
2.7.3	C.P. Brass bib cock,15mm nominal bore.	Each	590.00
2.7.4	(-do-) Long body, 15mm nominal bore weight not less than 690 gm	Each	783.00
2.7.5	(-do-) Long nose, 15mm nominal bore weight not less than 810 gm	Each	1008.00
2.7.6	(-do-) Elbow-action, 15mm nominal bore.	Each	953.00
2.7.7	Synthetic Material(PTMT) bib cock of approved quality/make, nominal bore, 15mm, 86 mm long.	Each	187.00
2.7.8	(-do-) Fancy Type, 122 mm long.	Each	232.00
2.7.9	(-do-) Long Body, 175 mm long	Each	295.00
2.8	P & F Stop Cock (IS :8931 Mark), superior quality & of approved make:		
2.8.1	Brass 400 gm. 15mm nominal bore.	Each	319.00
2.8.2	(-do-) 750 gm. 20 mm nominal bore.	Each	460.00
2.8.3	(-do-) 1350gm. 25 mm nominal bore.	Each	729.00
2.8.4	C.P. Brass 15mm nominal bore.	Each	477.00
2.8.5	(-do-) Concealed Stop Cock 15mm.	Each	1009.00
2.8.6	Synthetic material (PTMT) stop cock of approved quality/make 15mm.	Each	231.00
2.8.7	(-do-) Concealed stop cock 15mm	Each	259.00
2.9	P & F Sink Cocks of superior quality & approved made :		
2.9.1	C.P. Sink cock swinging spout 15mm.	Each	977.00
2.9.2	(-do-) Casted Spout 15 mm.	Each	977.00
2.10	P & F Push Cock superior quality, of approved make		
2.10.1	C.P. Brass 15 mm.	Each	370.00
2.10.2	Synthetic Material (PTMT) push cock of approved quality/make 15mm.	Each	205.00
2.11	P & F Ball Cock (IS :1703 Mark) with Rod & P.V.C. Ball complete :		
2.11.1	Brass wt. Not less than 300 gm,15mm.	Each	314.00
2.11.2	Brass wt.Not less than 400 gm, 20mm.	Each	372.00
2.11.3	(-do-) wt.Not less than 600 gm, 25mm.	Each	440.00
2.11.4	(-do-) wt.Not less than 800 gm, 32mm.	Each	480.00
2.11.5	(-do-) wt.Not less than 1000 gm 40mm.:	Each	728.00
2.11.6	(-do-) wt.Not less than 1200 gm 50mm.	Each	789.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.11.7	Synthetic material (PTMT) of approved make 15mm nominal size.	Each	277.00
2.11.8	(-do-) 20 mm nominal size.	Each	383.00
2.11.9	(-do-) 25 mm nominal size.	Each	710.00
2.11.10	(-do-) 50 mm nominal size.	Each	1841.00
2.12	P & F <i>Inlet Connection</i> (Angle Valves) Superior quality, of approved make, for Wash basin, Gyser etc.		
2.12.1	C.P. Inlet connection 15mm.Brass (IS : 8931 marked)	Each	501.00
2.12.2	---do--- with 37 cm long pipe and nut.	Each	590.00
2.12.3	---do--- with 60 cm long thread and nut	Each	626.00
2.12.4	Synthetic Material (PTMT) Inlet connection of approved quality/make 15 mm nominal size.	Each	240.00
2.13	P & F 15 mm. Dia <i>Connection Pipe</i> of approved quality/make :		
2.13.1	PVC pipe with C.P. Brass nuts upto length, 300mm	Each	73.00
2.13.2	(-do-) upto length 370mm	Each	79.00
2.13.3	(-do-) 450mm.	Each	101.00
2.13.4	(-do-) 600mm.	Each	116.00
2.13.5	CP Brass Pipe with CP Brass nuts upto length 300mm.	Each	97.00
2.13.6	(-do-) 370mm.	Each	123.00
2.13.7	(-do-) 450mm.	Each	136.00
2.13.8	(-do-) 600mm.	Each	176.00
2.14	P & F <i>Flush Cock / Flush Valve</i> (IS : 9758 Mark) for WC of approved quality make :		
2.14.1	CP brass push type 15mm nominal bore.	Each	358.00
2.14.2	(-do-) 20mm nominal bore.	Each	541.00
2.14.3	(-do-) exposed 25mm nominal bore.	Each	961.00
2.14.4	(-do-) 32mm nominal bore.	Each	1301.00
2.14.5	(-do-) concealed 25mm nominal bore.	Each	975.00
2.14.6	(-do-) concealed 32mm nominal bore.	Each	1422.00
2.14.7	(-do-) Half-turn exposed 25mm nominal bore.	Each	783.00
2.14.8	(-do-) Concealed 25mm nominal bore.	Each	902.00
2.14.9	Brass / Gun metal Half-turn wt. 1 Kg. of approved quality / make, 25mm nominal bore.	Each	551.00
2.14.10	CP Brass flush valve 32mm nominal bore	Each	1993.00
2.15	P & F <i>Full-way Valve</i> (IS:778 Mark) or wheel valve of approved make :		
2.15.1	Gun-metal 15mm nominal bore.	Each	227.00
2.15.2	(-do-) 20mm nominal bore.	Each	358.00
2.15.3	(-do-) 25mm nominal bore.	Each	529.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.15.4	(-do-) 32mm nominal bore.	Each	703.00
2.15.5	(-do-) 40mm nominal bore.	Each	1074.00
2.15.6	(-do-) 50mm nominal bore.	Each	1464.00
2.15.7	(-do-) 65mm nominal bore.	Each	1783.00
2.15.8	(-do-) 80mm nominal bore.	Each	2670.00
2.15.9	(-do-)100 mm dia nominal bore	Each	4400
2.16	P & F <i>Gun-metal Non-return Valve or Check Valve</i> (IS : 778 Make) of approved make, superior quality:		
2.16.1	15mm nominal bore.		
(a)	Horizontal	Each	272.00
(b)	Vertical	Each	238.00
2.16.2	20mm nominal bore.		
(a)	Horizontal	Each	343.00
(b)	Vertical	Each	304.00
2.16.3	25mm nominal bore.		
(a)	Horizontal	Each	496.00
(b)	Vertical	Each	403.00
2.16.4	32mm nominal bore.		
(a)	Horizontal	Each	697.00
(b)	Vertical	Each	583.00
2.16.5	40mm nominal bore.		
(a)	Horizontal	Each	970.00
(b)	Vertical	Each	741.00
2.16.6	50mm nominal bore.		
(a)	Horizontal	Each	1416.00
(b)	Vertical	Each	964
2.17	P & F <i>Flush Valve</i> (Hydraulic) with level complete (IS : 9758 Mark) of approved make :		
2.17.1	32mm nominal bore.	Each	2650.00
	25mm nominal bore.	Each	
2.18	P & F Oxidised Gas Taps, Bench-type of superior quality and approved make:		
2.18.1	One way	Each	230.00
2.18.2	Two way	Each	309.00
2.18.3	Three way	Each	389.00
2.18.4	Four way	Each	457.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.19	P & F Chromium plated <i>Swan-neck Laboratory Cock</i> of approved quality / make:		
2.19.1	One way	Each	384.00
2.19.2	Two way	Each	525.00
2.19.3	Three way	Each	631.00
2.19.4	Four way	Each	691.00
2.20	P & F <i>Spouts</i> of superior quality and approved make:		
2.20.1	C.P. brass spout	Each	662.00
2.20.2	(-do-) Extra heavy with flange.	Each	810.00
2.21	P & F <i>Mixing Range</i> (15mm)		
2.21.1	C.P. One hole/close hole basin mixer with casted spout.	Each	1740.00
2.21.2	(-do-) with swinging spout casted.	Each	2001.00
2.21.3	C.P. sink mixer with swinging spout J-pipe.	Each	1876.00
2.21.4	(-do-) With casted spout.	Each	1936.00
2.21.5	C.P. valve mixer non-telephonic type.	Each	1800.00
2.21.6	C.P. wall mixer telephonic type crutch & telephonic shower.	Each	3179.00
2.21.7	(-do-) without crutch & telephonic shower.	Each	2541.00
2.21.8	C.P. Bath-tub mixer without telephonic shower but with crutch.	Each	3146.00
2.21.9	C.P. Surgical basin mixer elbow action.	Each	2541.00
2.21.10	(-do-) with shower (wall type)	Each	4580.00
2.22	P & F <i>Divertors</i> of superior quality and approved make:		
2.22.1	C.P. brass Tip-tone divertor bath spout with mixing valve.	Each	2556.00
2.22.2	(-do-) Three way (-do-)	Each	2456.00
2.22.3	(-do-) Two way with 22Cm. Pipe flange	Each	1410.00
2.23	P & F foot valve of superior quality and approved make with fittings :		
2.23.1	Brass 25 mm.	Each	172.00
2.23.2	CI 50 mm	Each	431.00
2.23.3	CI 65 mm	Each	543.00
2.23.4	CI 80 mm	Each	831.00
2.23.5	CI 100 mm	Each	1650.00
2.24	P & F <i>Precast R.C.C. Water Storage Tank</i> with R.C.C. cover 25mm thick and 15 Cm. Long G.I. over-flow pipe including making connections etc. & hoisting upto 1M. ht. From ground level having:		
2.24.1	340 litres water capacity size 90 x 75 x 60 Cm.	Each	932.00
2.24.2	270 litres water capacity size 90 x 60 x 60 Cm.	Each	756.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.25	Hoisting Charges of precast R.C.C. water storage tank on each floor :		
2.25.1	340 litres water capacity.	Each	218.00
2.25.2	270 litres water capacity.	Each	162.00
2.26	P & F PVC Storage Tank ISI Marked (IS : 12701) indicating the BIS license No), of approved make with cover, 25mm dia 1M long G.I. over-flow pipe & 25 Cm. long wash out pipe with plug & socket, including making connection etc., complete of approved design:		
2.26.1	200 litres capacity.	Each	1569.00
2.26.2	300 (-do-)	Each	2352.00
2.26.3	500 (-do-)	Each	3920.00
2.26.4	750 (-do-)	Each	5881.00
2.26.5	1000 (-do-)	Each	7841.00
2.26.6	2000 (-do-)	Each	15682.00
2.26.7	3000(-do-)	Each	23522.00
2.26.8	5000(-do-)	Each	39204.00
2.27	Hoisting Charges for each floor :		
2.27.1	For items 2.26.1 to 2.26.4	Each	110.00
2.27.2	For items 2.26.5 to 2.26.8	Each	157.00
2.28	Providing and fixing Bitumen Paint Coating over G.I. Pipes Complete as per Specifications. –		
2.28.1	15 mm dia	Rmt.	1.50
2.28.2	20 mm dia	Rmt.	2.00
2.28.3	25 mm dia	Rmt.	2.50
2.28.4	40 mm dia	Rmt.	4.00
2.29	Providing and fixing Polyethylene - Aluminium -Polyethylene (PE-AL-PE) Composite Pressure Pipes as per 15450 : 2004 U.V. stabilised with carbon black having thermal stability for hot and cold water supply, capable to withstand temperature upto 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers connectors etc.with clamps at 1.00 metre spacing. This include the cost of cutting chases and including testing of joints complete as per direction of Engineer In charge Internal work - Exposed on Wall		
2.29.1	1216 (16mm OD) pipe	Metre	235.00
2.29.2	1620 (20mm OD) pipe	Metre	270.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.29.3	2025 (25mm OD) pipe	Metre	328.00
2.29.4	2532 (32mm OD) pipe	Metre	435.00
2.29.5	3240 (40mm OD) pipe	Metre	559.00
2.30	Providing and fixing Polyethylene - Aluminium -Polyethylene (PE-AL-PE) Composite Pressure Pipes as per 15450 : 2004 U.V. stabilised with carbon black having thermal stability for hot and cold water supply, capable to withstand temperature upto 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers connectors etc. with clamps at 1.00 metre spacing. This include the cost of cutting chases and including testing of joints complete as per direction of Engineer In charge Concealed installation including cutting chases and making good the walls etc. complete.		
2.30.1	1216 (16mm OD) pipe	Metre	200.00
2.30.2	1620 (20mm OD) pipe	Metre	221.00
2.30.3	2025 (25mm OD) pipe	Metre	261.00
2.30.4	2532 (32mm OD) pipe	Metre	339.00
2.30.5	3240 (40mm OD) pipe	Metre	414.00
2.31	Providing and fixing Polyethylene - Aluminium -Polyethylene (PE-AL-PE) Composite Pressure Pipes as per 15450 : 2004 U.V. stabilised with carbon black having thermal stability for hot and cold water supply, capable to withstand temperature upto 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers connectors etc. with trenching & refilling and testing of joints complete as per direction of Engineer In charge External work		
2.31.1	1216 (16mm OD) pipe	Metre	178.00
2.31.2	1620 (20mm OD) pipe	Metre	199.00
2.31.3	2025 (25mm OD) pipe	Metre	239.00
2.31.4	2532 (32mm OD) pipe	Metre	317.00
2.31.5	3240 (40mm OD) pipe	Metre	392.00
2.32	Supply & fixing G.I. Union ISI marked in G.I. pipe line as required complete in all respect of size :		
2.32.1	15mm dia nominal bore	Each	101.00
2.32.2	20mm dia nominal bore	Each	140.00
2.32.3	25mm dia nominal bore	Each	164.00
2.32.4	32mm dia nominal bore	Each	242.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.32.5	40mm dia nominal bore	Each	306.00
2.32.6	50mm dia nominal bore	Each	463.00
2.32.7	65mm dia nominal bore	Each	902.00
2.32.8	80mm dia nominal bore	Each	1041.00
2.33	Providing and fixing Superior quality CP Brass fittings of approved make as per direction of Engineer-in-charge		
2.33.1	Pillar Cock 15 mm nominal size	Each	823.00
2.33.2	Swan neck pillar cock 15 mm nominal size	Each	1580.00
2.33.3	Bib Cock with long thread 15 mm nominal size	Each	823.00
2.33.4	Long body Bib Cock 15 mm nominal size	Each	1084.00
2.33.5	Two way Bib Cock 15 mm nominal size	Each	1174.00
2.33.6	Angular stop cock with long thread 15 mm nominal size	Each	762.00
2.33.7	Stop cock long thread	Each	799.00
2.33.8	Stop cock with reduced body	Each	1016.00
2.33.9	Concealed stop cock 15 mm nominal size	Each	1162.00
2.33.10	Sink cock with swinging casted spout (table mounted) 15 mm nominal size	Each	1621.00
2.33.11	Single lever wash basin mixer with 450 mm long copper connection pipe	Each	4659.00
2.33.12	Central hole basin mixer	Each	2698.00
2.33.13	Wall mixer 3 in 1 system with provision of tetephonic bath shower with bend pipe	Each	3743.00
2.33.14	600 mm long towel rail	Each	1801.00
2.33.15	Revolving type towel ring	Each	1101.00
2.33.16	Soap dish	Each	1071.00
2.33.17	Double coat hook	Each	823.00
2.33.18	190 mm rain shower	Each	5583.00
2.33.19	Shower arm	Each	1210.00
2.33.20	Paper holder	Each	1125.00
2.33.21	Hand shower with 8 mm dia 1 mt long PVC tube & wall hook complete	Each	1832.00
2.33.22	Health focet (Premium heavy Quality) as approved by Engineer-in-Charge	Each	950.00
2.33.23	Jet Spray (Premium heavy Quality) as approved by Engineer-in-Charge	Each	600.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.34	Providing and fixing 3-layer PP-R (Polypropylene random copolymer) pipes SDR 7.4 UV stabilized and antimicrobial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded Polypropylene random fittings and fixing the pipe with clamps at 1 metre spacing. This includes testing of joint complete as per direction of Engineer - in charge.(INTERNAL WORK- EXPOSED ON WALL)		
2.34.1	PN-16 Pipe, 16 mm OD	Rm	173.00
2.34.2	PN-16 Pipe, 20 mm OD	Rm	198.00
2.34.3	PN-16 Pipe, 25 mm OD	Rm	284.00
2.34.4	PN-16 Pipe, 32 mm OD	Rm	397.00
2.34.5	PN-16 Pipe, 40 mm OD	Rm	550.00
2.34.6	PN-16 Pipe, 50 mm OD	Rm	799.00
2.35	Providing and fixing 3-layer PP-R (Polypropylene random copolymer) pipes SDR 7.4 UV stabilized and antimicrobial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded Polypropylene random fittings and fixing the pipe with clamps at 1 metre spacing. This includes cost of cutting chases and making good the same including testing of joint complete as per direction of Engineer - in charge.(CONCEALED WORK INCLUDING CUTTING CHASES AND MAKING GOOD THE WALL ETC.)		
2.35.1	PN-16 Pipe, 16 mm OD	Rm	237.00
2.35.2	PN-16 Pipe, 20 mm OD	Rm	265.00
2.35.3	PN-16 Pipe, 25 mm OD	Rm	342.00
2.35.4	PN-16 Pipe, 32 mm OD	Rm	455.00
2.36	Providing and fixing 3-layer PP-R (Polypropylene random copolymer) pipes SDR 7.4 UV stabilized and antimicrobial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded Polypropylene random fittings including trenching, refilling and testing of joint complete as per direction of Engineer - in charge. (EXTERNAL WORKS)		
2.36.1	PN-16 Pipe, 16 mm OD	Rm	156.00
2.36.2	PN-16 Pipe, 20 mm OD	Rm	185.00
2.36.3	PN-16 Pipe, 25 mm OD	Rm	262.00
2.36.4	PN-16 Pipe, 32 mm OD	Rm	376.00
2.36.5	PN-16 Pipe, 40 mm OD	Rm	528.00
2.36.6	PN-16 Pipe, 50 mm OD	Rm	681.00
2.36.7	PN-16 Pipe, 63 mm OD	Rm	1146.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.37	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1 metre spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work Exposed on wall)		
2.37.1	15 mm nominal size	Rm	191.00
2.37.2	20mm nominal size	Rm	222.00
2.37.3	25 mm nominal size	Rm	282.00
2.37.4	32mm nominal size	Rm	369.00
2.37.5	40 mm nominal size	Rm	519.00
2.37.6	50 mm nominal size	Rm	802.00
2.38	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work including cutting chases and making good the walls etc.,)		
2.38.1	15 mm nominal size	Rm	279.00
2.38.2	20mm nominal size	Rm	289.00
2.38.3	25 mm nominal size	Rm	376.00
2.38.4	32mm nominal size	Rm	476.00
2.39	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (IS 15778 : 2007 code) having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, this included jointing of pipes & fittings with one step CPVC solvent cement , trenching refilling & testing of joints complete as per direction of Engineer in Charge. (External work).		
2.39.1	15 mm nominal size	Rm	167.00
2.39.2	20mm nominal size	Rm	196.00
2.39.3	25 mm nominal size	Rm	262.00
2.39.4	32mm nominal size	Rm	343.00
2.39.5	40 mm nominal size	Rm	471.00
2.39.6	50 mm nominal size	Rm	757.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.40	Providing and fixing Premium quality Towel rack 600mm long 260mm wide with lower hangers CP Brass fittings of approved make as per direction of Engineer-in-charge	Each	3089.00
2.41	Labour Charges for Removing & Refixing the water Storage Tank of all sizes and including all Necessary fitting complete in all respect as per approved sample and direction of engineer in charge.	Each	369.00
2.42	Providing and fixing premium quality Angular stop cock 15mm with wall flange complete as per sample approved by Engineer in charge	Each	1572.00
2.43	Providing and fixing premium quality Two way Bib cock 15mm with wall flange complete as per sample approved by Engineer in charge	Each	2335.00
2.44	Providing and fixing superior quality PVC Tank Cover complete as per approved by Engineer In Charge		
2.44.1	300 Lt. capacity	Each	186.00
2.44.2	500 Lt. capacity	Each	201.00
2.44.3	Above 500 Lt. capacity	Each	216.00
2.45	Providing & fixing C.I. Saddle pieces 100mm dia with nut & bolt & washer & Rubber Gasket complete as per direction of engineer in charge	Each	196.00
2.46	Supply and installation of Premium quality sluice valve 100mm dia including all fittings as per approved by Engineer in charge.	Each	5042.00
2.47	Providing Laying Jointing DI Pipe (Ductile iron pipe) of 100 mm dia ISI marked K-7 grade as per IS : 5329-2000 with internal cement mortar lining for potable water with rubber ring (EPDM/ SBR) Joints per IS : 5382-1985 complete including Hydraulic testing & commissioning as per Technical Specification.	Mtr	1088.00
2.48	P&F Sluice valve of approved code IS 14846 : 2000 make		
2.48.1	100 mm dia nominal bore	Each	10175.00
2.48.2	75 mm dia nominal bore	Each	9625.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

2.49	P&F Divertors in water supply lines for walls, wash basin etc	Each	10450.00
2.50	P & F of Water Spout Superior Quality of approve make.	Each	1870.00
2.51	P&F Sink Mixture of (Adjustable or Non Adjustable) Superior quality Swan Neck.	Each	5060.00

CHAPTER : S-3

DRAINAGE / DISPOSAL WORK

Note :-

- 1 For laying of S.W. pipes beyond 1.2m depth, earthwork & close timbering or open timbering (as per site conditions) is to be paid extra.
- 2 The rates for S.W. pipes are applicable to work executed in soils above sub-soil water level. Extra allowance is to be made for working under sub-soil water level.
- 3 Rock cutting wherever required will be paid extra.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

STONEWARE PIPES & FITTING

3.1	Providing Laying & jointing glazed S.W. pipes grade 'A' (IS:651 marked) of approved make with spun yarn & stiff mixture of cement mortar 1:1, excavation & refilling of earth in all types of soil upto 1.2m depth, S.W. fittings, including testing of joints etc, complete.	Mtr.	252.00
3.1.1	100mm dia	Mtr.	406.00
3.1.2	150mm dia	Mtr.	565.00
3.1.3	200mm dia	Mtr.	639.00
3.1.4	250mm dia	Mtr.	745.00
3.1.5	300mm dia	Mtr.	1044.00
3.1.6	350mm dia	Mtr.	1526.00
3.1.7	400mm dia	Mtr.	

Note:-

1	If grade 'AA' S.W. pipes (IS:651 mark) are used then add 5%		
2	Deduct 5% if jointing is done in CM 1:3.		
3.2	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) all around S.W. pipe including 15 Cm. thick bed concrete (Width W= Diameter of pipe in Cm+30 Cm.)(Excluding cost of pipe)		
3.2.1	100mm dia S.W. pipe	Mtr.	457.00
3.2.2	150mm dia S.W. pipe	Mtr.	550.00
3.2.3	200mm dia S.W. pipe	Mtr.	560.00
3.2.4	250mm dia S.W. pipe	Mtr.	713.00
3.2.5	300mm dia S.W. pipe	Mtr.	754.00
3.2.6	350mm dia S.W. pipe	Mtr.	867.00
3.2.7	400mm dia S.W. pipe	Mtr.	981.00
3.2.8	450mm dia S.W. pipe	Mtr.	1095.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.3	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) upto haunches of S.W. pipes including 150 mm thick bed concrete (Width W= Dia of pipe in Cm+ 30Cm.) concrete width to be reduced from width W at center of pipe to `0` at top of pipe. (Excluding cost of pipe)		
3.3.1	100mm dia S.W. pipe	Mtr.	217.00
3.3.2	150mm dia S.W. pipe	Mtr.	353.00
3.3.3	200mm dia S.W. pipe	Mtr.	413.00
3.3.4	230mm dia S.W. pipe	Mtr.	453.00
3.3.5	250mm dia S.W. pipe	Mtr.	482.00
3.3.6	300mm dia S.W. pipe	Mtr.	557.00
3.3.7	350mm dia S.W. pipe	Mtr.	635.00
3.3.8	400mm dia S.W. pipe	Mtr.	713.00
3.4	Providing & fixing S.W. <i>square mouth Gully trap</i> `A` grade (IS 651-1992 marked) of approved make & design in existing man-hole.		
3.4.1	Size 100 X 100mm	Each	182.00
3.4.2	Size 150 X 100mm	Each	195.00
3.4.3	Size 225 X 150mm	Each	253.00
3.5	P & F <i>Square-mouth</i> gully trap `A` grade (IS 651-1992 marked) of approved make complete with C.I. grating, frame & Cover masonry chamber in C.M. 1:6, 100mm thick C.C. 1:5:10 base concrete, 40mm thick C.C.M-15 grade coping, 12mm thick cement plaster in CM 1:3 complete as per approved design & type.		
3.5.1	Trap size 150 X 100mm, ferrow cement cover with frame, Internal Chamber size 300 X 300mm.	Each	1150.00
3.5.2	Trap size 225 X 150 mm, ferrow cement cover with frame Internal Chamber size 450 X 450mm.	Each	1529.00
3.6	P & F S.W. <i>Master Trap</i> (Inter-cepting) `A` grade (I.S.: 651 marked) of approved quality/make		
3.6.1	100mm dia	Each	344.00
3.6.2	150mm dia	Each	486.00
3.7	Labour charges for Removing S.W. pipes including breaking of joints & bed concrete, stacking of useful material at site within 50 mtr. Lead and disposal of unserviceable material within 0.5 Km. lead:		
3.7.1	100 & 150mm dia pipe	Mtr.	23.00
3.7.2	200, 230 & 250mm dia pipe	Mtr.	25.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

3.7.3	300mm dia pipe	Mtr.	26.00
3.7.4	350mm dia pipe	Mtr.	30.00
3.7.5	400mm dia pipe	Mtr.	31.00

R.C.C. NON PRESSURE PIPES

3.8 Providing, Laying & Jointing R.C.C. class NP-2 Non-Pressure pipes (IS : 458mark) of approved make with collars, jointed with C.M. 1:2 or having Spigot and socket ends with flexible rubber rings joint including testing of joints etc. complete :

3.8.1	100mm dia Internal	Mtr.	488.00
3.8.2	150mm dia Internal	Mtr.	600.00
3.8.3	200mm dia Internal	Mtr.	674.00
3.8.4	250mm dia Internal	Mtr.	891.00
3.8.5	300mm dia Internal	Mtr.	991.00
3.8.6	450mm dia Internal	Mtr.	1550.00
3.8.7	500mm dia Internal	Mtr.	1736.00
3.8.8	600mm dia Internal	Mtr.	2229.00
3.8.9	700 mm dia Internal	Mtr.	2721.00
3.8.10	800 mm dia Internal	Mtr.	3744.00
3.8.11	900 mm dia Internal	Mtr.	4424.00

Note : Deduct 20 % for Non ISI marked pipes of all size

SAND-CAST IRON SOIL, WATER & RAIN WATER PIPES.

3.9 P & F Sand-cast Iron (S.C.I.) Pipe (IS : 1729mark) of approved make in wall or in floor with M.S. holder bat clamps in 10 X 10 X 10 Cm. M-15 grade concrete blocks, joints filled with CM 1:4 with spun yarn including cutting holes and making good the wall:

3.9.1	50mm dia	Mtr.	759.00
3.9.2	75mm dia	Mtr.	952.00
3.9.3	100mm dia	Mtr.	1228.00
3.9.4	150mm dia	Mtr.	2036.00

3.10 Add extra for *Lead caulked joints* (IS:782-1978) in sand cast iron pipes/spun-

3.10.1	75mm dia, 0.88 Kg. Pig lead	Each	289.00
3.10.2	100mm dia, 0.98 Kg. Pig lead	Each	349.00
3.10.3	150mm dia, 1.48 Kg. Pig lead	Each	452.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.11	P &F S.C.I. <i>Fittings</i> (IS : 1729 mark) in CM 1:4 with spun yarn.		
3.11.1	50mm w/o door		
(i)	Socket	Each	319.00
(ii)	Cowel	Each	405.00
(iii)	Tee	Each	587.00
(iv)	Bend	Each	476.00
3.11.2	75 mm w/o door		
(i)	Offset	Each	535.00
(ii)	Socket	Each	376.00
(iii)	D/door Y-Tee	Each	883.00
(iv)	Cowel	Each	475.00
(v)	Tee	Each	668.00
(vi)	Bend	Each	549.00
(vii)	Door Cross	Each	648.00
3.11.3	100mm-do-		
(i)	Offset	Each	884.00
(ii)	Socket	Each	450.00
(iii)	D/door Y-Tee	Each	1230.00
(iv)	Cowel	Each	561.00
(v)	Tee	Each	915.00
(vi)	Bend	Each	662.00
(vii)	Door Cross	Each	706.00
3.11.4	150mm w/o door		
(i)	Socket	Each	1008.00
(ii)	Cowel	Each	1133.00
(iii)	Bend	Each	1412.00
3.11.5	50mm with door		
(i)	Tee	Each	684.00
(ii)	Bend	Each	547.00
3.11.6	75mm-do-		
(i)	Tee	Each	711.00
(ii)	Bend	Each	605.00
3.11.7	100mm-do-		
(i)	Tee	Each	949.00
(ii)	Bend	Each	765.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.11.8	150mm-do-		
(i)	Tee	Each	1979.00
(ii)	Bend	Each	1642.00
3.12	P & F Sand –cast Floor Trap (<i>Nahni</i>) of (IS:1729 mark) of approved quality/make with socket down or hinged grating including cutting and making good the floor.		
3.12.1	Size 100 x 100mm	Each	832.00
3.12.2	Size 100 x 75mm	Each	792.00
3.12.3	Size 100 x 50mm	Each	436.00
3.13	P & F Sand-cast Iron `P` or `S` Trap (IS:1729 make) of approved make.	Each	927.00
3.14	Labour charges for making connection of sewer line through main hole.	Each	649.00
3.15	Labour charges for removing C.I./A.C. pipes of all sizes including accessories with care and stacking of useful	Mtr.	33.00
RIGID PVC PIPE			
3.16	P&F rigid PVC Pipe (IS:4985 mark) class II/ (4 Kg. /Cm ² approved quality /make including joining the pipe with solvent cement rubber ring and lubricant.		
3.16.1	63 mm dia	Mtr	147
3.16.2	75 mm dia	Mtr	177
3.16.3	110 mm dia	Mtr	282
3.16.4	160 mm dia	Mtr	463
3.16.5	Providing & Laying C.C. 1:3:6 (Stone Aggregate 20mm nominal size) all around PVC Pipe including 7.5 cm thick bed concrete [Width & Height = Dia of Pipe in CM+15CM] excluding cost of Pipe & Excavation of trenches etc.		
3.16.5.1	PVC pipe 110 mm dia	Mtr.	325
3.16.5.2	PVC pipe 160 mm dia	Mtr.	425
3.17	P&F rigid PVC pipe fittings (IS: 4985 mark) of approved quality /make including joining the pipe with solvent cement rubber ring and lubricant:		
3.17.1	Coupler (socket)		
(i)	75mm dia	Each	87
(ii)	110mm dia	Each	108
(iii)	160 mm dia	Each	119

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.17.2	Reducer 110 X 75 mm		
(i)	75mm dia	Each	90
(ii)	110mm dia	Each	97
(iii)	160 mm dia	Each	114
3.17.3	Plain Tee		
(i)	75mm dia	Each	114
(ii)	110mm dia	Each	187
(iii)	160 mm dia	Each	205
3.17.4	Door Tee		
(i)	75mm dia	Each	177
(ii)	110mm dia	Each	213
(iii)	160 mm dia	Each	229
3.17.5	Door 'Y'		
(i)	75mm dia	Each	187
(ii)	110mm dia	Each	230
(iii)	160 mm dia	Each	246
3.17.6	Double 'Y'		
(i)	75mm dia	Each	195
(ii)	110mm dia	Each	310
(iii)	160 mm dia	Each	330
3.17.7	Double Door 'Y'		
(i)	75mm dia	Each	229
(ii)	110mm dia	Each	391
(iii)	160 mm dia	Each	408
3.17.8	Bend 45		
(i)	75mm dia	Each	80
(ii)	110mm dia	Each	128
(iii)	160 mm dia	Each	143
3.17.9	Bend 87 .5		
(i)	75mm dia	Each	97
(ii)	110mm dia	Each	161
(iii)	160 mm dia	Each	177
3.17.10	Door Bend (Top Side)		
(i)	75mm dia	Each	132
(ii)	110mm dia	Each	154
(iii)	160 mm dia	Each	172

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.17.11	Door Bend (Left & Right)		
(i)	75mm dia	Each	158
(ii)	110mm dia	Each	195
(iii)	160 mm dia	Each	211
3.17.12	Vent Cowel		
(i)	75mm dia	Each	43
(ii)	110mm dia	Each	56
(iii)	160 mm dia	Each	76
3.17.13	Socket plug		
(i)	75mm dia	Each	68
(ii)	110mm dia	Each	81
(iii)	160 mm dia	Each	101
3.17.14	Door Cap		
(i)	75mm dia	Each	44
(ii)	110mm dia	Each	62
(iii)	160 mm dia	Each	79
3.17.15	Pipe Clip		
(i)	75mm dia	Each	24
(ii)	110mm dia	Each	36
(iii)	160 mm dia	Each	53
3.17.16	W.C. connector with lipring		
	110mm dia	Each	213
3.17.17	W.C. connector bent type		
	110mm dia	Each	223
3.17.18	Plain floor trap		
	110mm dia	Each	230
3.17.19	Multi floor trap		
	110mm dia	Each	266
3.17.20	height Raiser		
	110mm dia	Each	213
3.17.21	Top Tile& straine		
	110mm dia	Each	80

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.17.22	Top Tile only 110mm dia	Each	62
3.17.23	P- Trap 110mm dia	Each	382
3.17.24	Q- Trap 110mm dia	Each	428
3.17.25	S- trap 110mm dia	Each	535
3.17.26	Ring fitting 110mm dia	Each	108
3.17.274	Gully trap 110mm dia	Each	561
3.18	Raising manhole cover and frames slab to required level including dismantling existing slab and making good the damage as required (raising depth of manhole masonry to be paid separately).		
3.18.1	Rectangular manhole 90x60 cm	Each	972
3.18.2	Rectangular manhole 150x120 cm	Each	1487
3.19	Construction of <i>manhole</i> in all type of soil inner size 90 X 60 Cm. 300 mm thick masonry in CM 1:6, 10 Cm. thick cement concrete 1:5:10 in foundation, 20 mm thick inside plaster in CM 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring, making channels, 80mm thick stone slab covering with 40mm thick M-15 grade C.C. flooring, Cement cover with frame of 450mm dia, earthwork etc. complete as per design including disposal of surplus earth within 50 mtr. lead.		
3.19.1	Depth up to 0.5 M	Each	5489
3.19.2	Add extra over item 3.19.1 for every additional 0.10m depth above 0.5 m depth.	Each	206
3.19.3	Deduct in Item No 3.19.1 for manhole with brick work 230 mm thick in place of 300 mm thick stone masonry	Each	1042

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.20	Construction of Man hole, in all types of soil, inner size 1.5 x 1.2 M, with 450mm thick masonry in CM 1:6, 10 Cm. thick cement concrete 1:5:10 in foundation, 20mm thick inside plaster in CM 1:6, finished with floating neat cement, 50 mm thick M-15 grade C.C. flooring making channels, 80 mm thick stone slab covering with 40 mm thick M-15 grade C.C. flooring, Ferro Cement cover with frame of 450mm dia, earthwork etc. complete including disposal of surplus earth within 50 mtr. lead as per design :		
3.20.1	Depth up to 1.5 M	Each	20016
3.20.2	Add extra over item 3.20.1 for every additional 0.10m depth above 1.5 m depth .	Each	703
3.21	Construction of <i>chamber</i> in all type of soil with 300 mm thick masonry in CM 1:6 m,10 cm thick C.C. 1:5:10 in foundation, 20mm thick insider plaster in Cm 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring , earthwork etc. complete as per design including disposal of surplus earth within a lead of 50 mtr.		
3.21.1	Inside size 300 X 300 mm depth upto 0.5 M Cement cover with frame.	Each	1049
3.21.1.1	Deduct for using brick work 230 mm thick in place of 300 mm thick stone masonry		455
3.21.2	-do- size 450 x 450mm depth upto 0.5 M Cement cover with frame	Each	2332
3.21.2.1	Deduct for using brick work 230 mm thick in place of 300 mm thick stone masonry		508
3.21.3	-do- size 600 x 450mm depth upto 0.5 M Cement cover with frame.	Each	3299
3.21.3.1	Deduct for using brick work 230 mm thick in place of 300 mm thick stone masonry		529
3.22.4	-do- depth upto 0.5 M to 1.0 M –do-	Each	3628
3.21.4.1	Deduct for using brick work 230 mm thick in place of 300 mm thick stone masonry		811

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.22	Construction of soakage well in all type of soil with 300 mm thick dry masonry, top and bottom 300 mm course in CM 1:6, 80mm thick stone slab, jointing of slab in CM 1 : 3, Ralthal, Kharanja, 40 mm thick M-15 grade C.C flooring , earthwork complete as per approved drawing including disposal of earth within a lead of 50 mtr.:		
3.22.1	Size 300 Cm. dia outside & 300 Cm. depth .	Each	24135
3.22.2	-do- & 240 Cm. Depth.	Each	22138
3.22.3	Size 240 Cm. dia outside & 240 Cm. depth.	Each	16100
3.23	Construction of soakage Trench in all types of soil with 300 mm thick dry stone masonry, 80 mm thick stone slab covering, jointing of slab in CM 1:3 Ralthal, Kharanja, 40 mm thick M-15grade C.C. flooring earthwork etc. complete as per approved drawing including disposal of earth within a lead of 50 Mtr.:		
3.23.1	Top width 180Cm., bottom width 90Cm. & depth 240Cm.	Mtr.	6149
3.23.2	-do- 240 Cm., -do- 150Cm. & depth 300 Cm	Mtr.	10397
3.24	Construction of Soakage well in all types of soil of approved drawing, top 90 Cm .Portion in 450mm thick masonry with CM 1:6, 80 mm thick stone slab covering, jointing of slab in CM 1:3 ,Ralthal, kharanja 40mm thick M-15 grade C.C flooring, earth work etc . complete including disposal of surplus earth within a lead of 50 mtr .		
3.24.1	Inner dia 90 Cm & 10 to 12 Mtr deep.	Each	5478
3.24.2	Inner dia 60 Cm & 10 to 12 Mtr deep.	Each	5160
3.25	Labour charges for construction of Soakage well of 90 Cm. dia (Earth –work & its disposal ,with in a lead of 0.5 Km .only).	Mtr	99
3.26	Add extra if Soakage Well is filled with dry stones.	Cum	399
3.27	Construction of septic Tank in all types of soil with 40 Cm .thick masonry in CM 1:6, 15 Cm thick C.C bed of 1:5:10, M-15 grade C.C floor & RCC slab covering with M15 grade c.c. floor, 50 mm thick stone slab partition walls, 20 mm thick plaster in CM 1:6 finished with neat floating cement, 4 Nos stone foot rests of approved design ,two No. 450 mm dia each Ferro cement cover with frame, earth work etc. complete as per approved drawing including disposal of surplus earth within a lead of 50 mtr:-		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.27.1	Size 200x100x130 cm.(for 10 users) with 115 mm thick RCC (M-20) slab with Tor steel reinforcement 8mm ϕ @15 cm c/c bothways including shuttering complete in all respect.	Each	27322
3.27.2	Size 230 x110 x150 cm.(for 20 users) with 115 mm thick RCC (M-20) slab with Tor steel reinforcement 10mm ϕ @15 cm c/c bothways including shuttering complete in all respect.	Each	38499
3.27.3	Size 400 x140x150 cm.(for 50 users) with 115 mm thick RCC (M-20) slab with Tor steel reinforcement 10mm ϕ @15 cm c/c bothways including shuttering complete in all respect.	Each	59860
Note :-	Add or subtract proportionately for every 0.5 M increase or decrease in Length -12.5% Breadth & Depth -18 % each		
3.28	Emptying of Septic tank ,Soakage well etc. by disposing or sludge upto 5 Km. lead & taking out sewage including cleaning of site.	Cum	286
3.29	Add extra if R.C.C slab of designed thickness & reinforcement is provided on manhole in place of stone slab(Actual area of R.C.C slab to be measured).	Sqm	215
3.30	P & F M.S. Foot Rests in with C.M.,1:3, standard design in 20mm square M.S. bar 50 mm embedded in wall & 10 cms. projected out complete.	Each	223
3.31	Supplying and fixing C.I. Cover with frame, C.I. gratings for chambers & man holes.	Kg.	72
3.32	Supplying and fixing Ferro- cement cover with C.I. frame for chambers & man holes of size.		
3.32.1	450mm dia, 5Kg. C.I. frame to withstand 3 MT center point load & minimum unfractured load of 1 MT. (Light duty).	Each	1355
3.32.2	500mm dia 12 Kg.-do-15 MT centre point load (medium duty).	Each	2487
3.32.3	500mm dia 22 Kg.-do-22 MT centre point load (Heavy duty).	Each	3906
3.32.4	500mm dia 25 Kg.-do-70 MT centre point load seal type (Heavy duty.)	Each	4080
3.32.5	Rectangular shape 600 x 450 mm, to withstand 3 MT center point load & minimum unfractured load of 1 MT. (Light duty).	Each	1357
3.33	Supplying & Fixing R.C.C. Manholes covers with frame of approved make (Light duty).		

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.33.1	Size 500mm dia (Double seal)	Each	329
3.33.2	Size 450mm dia	Each	292
3.33.3	Size 400mm dia	Each	219
3.33.4	Size 600 X 600mm (Double seal)	Each	502
3.33.5	Size 600 X 450mm	Each	421
3.33.6	Size 450 X 450mm	Each	319
3.33.7	Size 300 X 300mm	Each	99
3.33.8	Size 250 X 250mm	Each	81
3.33.9	Size 180 X 180mm	Each	73
3.34	Construction of Open Surface Drain with 112mm thick brick masonry in CM 1:4, 110mm thick base concrete 1:5:10, 37mm thick M-15 grade C.C. flooring , 12mm 1:4 cement plaster on all exposed faces of walls including top surface excavation & disposal of earth complete as per approved design/drawing:		
3.34.1	112mm drain, 225mm Av. depth	Mtr.	271
3.34.2	150mm drain, 225mm Av. depth	Mtr.	284
3.34.3	250mm drain, 300mm Av. depth	Mtr.	380
3.35	Construction of open Drain with 112mm thick brick masonry in CM 1:4 Semi circular S.W. glazed channel (confirming to IS Standards) fixed with cement mortar 1:1 over a bed of 100mm thick C.C. 1:5:10, filling of edged with M-15 grade C.C. flooring, 12mm cement plaster 1:4, over all exposed faces, excavation & disposal of earth with in a lead of 50 mtr complete as per approved drawings :		
3.35.1	112 mm drain, 225mm Av. depth width 10 Cm S.W. glazed channel.	Mtr	435
3.35.2	150 mm drain, 225mm Av. depth width 15 Cm S.W. glazed channel.	Mtr.	502
3.35.3	250 mm drain, 225mm Av. depth width 25 Cm S.W. glazed channel.	Mtr.	876
3.36	Extra For additional 5 Cm. Average depth of drain of all sizes.	Mtr.	35

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.37	P & F precast dense cement concrete (Vibro-pressed) drain section Block of different size as per approved drawing and design and strength as per IS code 2185 part I of grade 'D' (5.00mm^2) proper quality of additive/admixture like plasticizer etc. added to produce high quality and durable drain section Blocks of 'L' shape 'U' shape etc. as per approved design and drawing complete with fixing and joining in C.M.1:4 in proper grade and level complete in all respect including earth work and disposal of surplus earth within 0.5 Km. lead. (cost of Steel/ welded mesh etc. shall be paid extra).		
3.37.1	40mm thick	Sqm.	418
3.37.2	Upto 60mm thick	Sqm.	518
3.37.3	Upto 80mm thick	Sqm.	634
3.38	Construction of Cement Concrete Chamber 125mm dia.		
3.38.1	C.P. Brass grating	Each	167
3.38.2	C.P. Brass doom grating	Each	177
3.38.3	C.I. Grating	Each	152
3.38.4	Stainless Steel Sheet Grating	Each	171
3.39	Construction of Cement Concrete Chamber 125mm dia on depressed floor upto 45cm height from floor with :		
3.39.1	C.P. Brass grating	Each	237
3.39.2	C.P. doom grating	Each	263
3.39.3	C.I. Grating	Each	218
3.39.4	Stainless Steel Sheet Grating	Each	237
SPUN-CENTRIFUGALLY CAST IRON SOIL WATER PIPES:-			
3.40	Providing & fixing Spun –Centrifugally cast Iron Pipes (IS : 3989 Mark) of Approved make in wall or in floor with M.S. Holder bat clamps in 10 X 10 X10 Cm. M-15 Grade concrete blocks, joints filled with CM 1:4 with spun yarn including cutting holes and making good the wall:-		
3.40.1	75 mm dia	Mtr	1062
3.40.2	100 mm dia	Mtr	1299
3.40.3	150 mm dia	Mtr	2186

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.41	Providing & fixing Spun -Centrifugally cast Iron Pipes fitting (IS : 3989 Mark) in CM 1:4 with spun Yarn.		
3.41.1	75mm w/o door		
(i)	Offset	Each	594
(ii)	Socket	Each	362
(iii)	D/Door Y-Tee	Each	867
(iv)	Bend	Each	472
(v)	Door Cross	Each	1187
(vi)	Cowel	Each	432
(vii)	Tee	Each	670
3.41.2	100 mm -do-		
(i)	Offset	Each	809
(ii)	Socket	Each	519
(iii)	D/Door Y-Tee	Each	1144
(iv)	Bend	Each	655
(v)	Door Cross	Each	1272
(vi)	Cowel	Each	539
(vii)	Tee	Each	895
3.41.3	150 mm -do-		
(i)	Socket	Each	1045
(ii)	D/Door Y-Tee	Each	2628
(iii)	Bend	Each	1315
(iv)	Door Cross	Each	2409
(v)	Cowel	Each	1079
(vi)	Tee	Each	1964
3.41.4	75mm with door		
(i)	Bend	Each	552
(ii)	Door Cross	Each	777
(iii)	Tee	Each	722
3.41.5	100mm with door		
(i)	Bend	Each	728
(ii)	Door Cross	Each	1262
(iii)	Tee	Each	989
3.41.6	150mm with door		
(i)	Bend	Each	1509
(ii)	Door Cross	Each	2989
(iii)	Tee	Each	2164

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.42	Providing and Fixing Spun –Cast Iron floor trap (Nahani) of (IS :3989 Mark) approved quality / make with socket down or hinged grating including cutting and making good the floor :-		
3.42.1	Size 100 x 100 mm	Each	1000
3.42.2	Size 100 x 75 mm	Each	782
3.43	Add 10% extra Over Item No. 3.41 if the pipes are laid under suspended condition under the roof.		
UPVC SOIL WASTE & RAIN WATER (SWR) PIPES			
3.44	Providing and Fixing Unplasticized Poly Vinyl Chloride (UPVC) SWR Pipes Type B for sciland waste discharge system (IS:13592 : 1992 Marked) of approved quality /make		
3.44.1	75 mm dia	Mtr.	167
3.44.2	110 mm dia	Mtr.	336
3.45	Providing and Fixing Unplasticized Poly Vinyl Chloride (UPVC) SWR Pipes fittings type B for sciland waste discharge system (IS:13592 : 1992 Marked) of approved quality /make		
3.45.1	Coupler		
(i)	75mm dia	Each	72
(ii)	110mm dia	Each	108
3.45.2	Repair Coupler		
(i)	75mm dia	Each	76
(ii)	110mm dia	Each	124
3.45.3	Single Push Fit Coupler		
(i)	75mm dia	Each	73
(ii)	110mm dia	Each	127
3.45.4	Bend 87.5 Dg.		
(i)	75mm dia	Each	94
(ii)	110mm dia	Each	155
3.45.5	Bend 45 Dg.		
(i)	75mm dia	Each	78
(ii)	110mm dia	Each	132
3.45.6	Door Bend 87.5 Dg.		
(i)	75mm dia	Each	124
(ii)	110mm dia	Each	193

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.45.7	Single 'Y'		
(i)	75mm dia	Each	144
(ii)	110mm dia	Each	278
3.45.8	Single 'Y' with Door		
(i)	75mm dia	Each	187
(ii)	110mm dia	Each	348
3.45.9	Double 'Y'		
(i)	75mm dia	Each	196
(ii)	110mm dia	Each	353
3.45.10	Double 'Y' with Door		
(i)	75mm dia	Each	298
(ii)	110mm dia	Each	457
3.45.11	Socket Plug		
(i)	75mm dia	Each	62
(ii)	110mm dia	Each	76
3.45.12	Pipe Clip		
(i)	75mm dia	Each	18
(ii)	110mm dia	Each	31
3.45.13	Double tee with Door		
(i)	75mm dia	Each	334
(ii)	110mm dia	Each	572
3.45.14	W.C. Connector		
	110mm dia	Each	216
3.45.15	W.C. Connector (Bend) with ring		
	110mm dia	Each	226
3.45.16	Single Tee		
(i)	75mm dia	Each	120
(ii)	110mm dia	Each	210
3.45.17	Single Tee with Door		
(i)	75mm dia	Each	136
(ii)	110mm dia	Each	242

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.45.18	Double Tee (4 Ways)		
(i)	75mm dia	Each	212
(ii)	110mm dia	Each	367
3.45.19	Multi floor trap		
	110mm dia	Each	241
3.45.20	Offset		
	110mm dia	Each	282
3.45.21	Extra Square Jali		
	110mm dia	Each	37
3.45.22	Extra Round Jali		
	110mm dia	Each	26
3.45.23	Extra 4 SWR Ring		
(i)	75mm dia	Each	14
(ii)	110mm dia	Each	17
3.45.24	Gully Trap		
	110mm dia	Each	685
3.45.25	Nahni Trap with Jali 4"		
	110mm dia	Each	171
3.45.26	Nahni Trap without Jali 4"		
	110mm dia	Each	152
3.45.27	Nahni Trap with Jali 3"		
	75 mm dia	Each	153
3.45.28	Nahni Trap without Jali 3"		
	75 mm dia	Each	135
3.45.29	Vent Cowel		
	75 mm	Each	48
3.45.30	Vent Cowel		
	110mm dia	Each	59

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.46	Providing & fixing Spun -Centrifugally cast Iron Pipes fitting (IS : 3989 Mark) in CM 1:4 with spun Yarn 100mm w/o door as per direction of Engineer-in-Charge.		
(a)	P Trap of standard size	Each	936
(b)	Long P Trap (900mm)	Each	2695
(c)	Long P Bend	Each	923
(d)	Long Floor Trap (600mm)	Each	1656
3.47	Removing & Re fixing of S.C.I. Pipe and Spun Pipe with C.I.clip as per direction of Engineer-in-Charge of following diameters :-		
(a)	100mm dia	Each	182
(b)	150mm dia	Each	145
3.48	Cleaning of sewer line of various sizes as per requirement at site of different sizes including 100mm,150mm & 225mm dia of Stoneware pipe as per direction of Engineer-in-Charge.	Rmt	117
3.49	Cleaning of C.I. Pipe Line of various sizse as per requirement at site of different sizes including 100mm,150mm & 225mm dia of C.I.Pipes as per direction of Engineer-in-Charge.	Rmt	73
3.50	Repairing of Cement Concrete Chambers of different size as per requirement at site and as per direction of Engineer-in-charge.	Each	61
3.51	Providing & fixing Hubless Spun -Centrifugally cast Iron Pipes (IS : 15905 Mark) of Approved make in wall or in floor with M.S. Holder bat clamps in 10 X 10 X10 Cm. M-15 Grade concrete blocks, joints filled with CM 1:4 with spun yarn including cutting holes and making good the wall:-		
3.51.1	75 mm dia	Rmt	1128
3.51.2	100 mm dia	Rmt	1372
3.51.3	150 mm dia	Rmt	2240
3.52	Providing & fixing Hubless Spun -Centrifugally cast Iron Pipes fitting (IS : 15905 Mark) in CM 1:4 with spun Yarn.		
3.52.1	75mm w/o door		
(i)	Offset (130mm)	Each	562
(ii)	Shielded (SS) Coupling (With EPDM Rubber)	Each	460
(iii)	D/Door Y-Tee	Each	597
(iv)	Bend	Each	300
(v)	Cowel	Each	383
(vi)	Tee	Each	400

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.52.2	100mm W/o door (i) Ofset (130mm) (ii) Shielded (SS) Coupling (With EPDM Rubber) (iii) D/Door Y-Tee (iv) Bend (v) Cowel (vi) Tee	Each	780 502 1100 427 494 703
3.52.3	150mm W/o door (i) Shielded (SS) Coupling (With EPDM Rubber) (ii) D/Door Y-Tee (iii) Bend (iv) Cowel (v) Tee	Each	703 2047 902 1048 2024
3.52.4	75mm with door, bend	Each	408
3.52.5	100mm with door (i) Bend (ii) Tee	Each	652 890
3.53	Mechanised Cleaning of sewer line of diameter upto 200mm with the help of trolley mounted electrical driven machine having flexible steel springs of length 20ft. Each which are rotated with the help of electric motor and clutch assembly.	mtr	154
3.54	Mechanised sewer line Cleaning upto diameter 100mm with the help of PU coated glass fibre rod mounted on a wheel with brush attachment.	mtr	107
3.55	Mechanised Cleaning and desilting of manhole/sewer line chambers With the help of mechanical bucket which gets open and close through levers. 3.55.1 depth upto 0.5 mtr. 3.55.2 Depth upto 1.0 mtr. 3.55.3 Depth upto 2.0 mtr. 3.55.4 Depth upto 3.0 mtr. 3.55.5 Depth upto 5.0 mtr.	Each	98 182 339 491 781
3.56	Suplying and Fixing Ductile iron Man Hole Covers/storm water grating and gratingwith frame of various sizes weight and types and load bearing capacity as per EN -124 ,superior quality or equivalent, comlete as per Direction of Engineer In charge.	Kg.	182

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.57	Providing and fixing circular air tight composite resin (FRP) manhole cover without frame of approved brand with grade designation C-250 HD as per EN-124 standard. Manhole Cover shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing in existing manhole frame etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal dia 0.56m	Each	11679.00
3.58	Providing and fixing circular air tight composite resin (FRP) manhole cover without frame of approved brand with grade designation D-400 EHD as per EN-124 standard. Manhole Cover shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing in existing manhole frame etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal dia 0.56m	Each	14598.00
3.59	Providing and fixing circular air tight composite resin (FRP) manhole cover with frame of approved brand with grade designation C-250 HD as per EN-124 standard. Manhole Cover & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal dia 0.56m	Each	13371.00
(ii)	Internal dia 0.60m	Each	15070.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
3.60	Providing and fixing circular air tight composite resin (FRP) manhole cover with frame of approved brand with grade designation D-400 EHD as per EN-124 standard. Manhole Cover & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal dia 0.56m	Each	16290.00
(ii)	Internal dia 0.60m	Each	20910.00
3.61	Providing and fixing rectangular air tight composite resin (FRP) Manhole Cover with frame of approved brand with grade designation C-250 HD as per EN-124 standard. Manhole Cover & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal Size 0.45 m x 0.60 m	Each	12482.00
(ii)	Internal Size 0.45 m x 0.90 m	Each	15751.00
(iii)	Internal Size 0.60 m x 0.90 m	Each	23305.00
(iv)	Internal Size 0.90 mx 1.20 m	Each	63342.00
3.62	Providing and fixing rectangular air tight composite resin (FRP) Manhole Cover with frame of approved brand with grade designation D-400 EHD as per EN-124 standard. Manhole Cover & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal Size 0.45 m x 0.60 m	Each	16323.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
(ii)	Internal Size 0.45 m x 0.90 m	Each	20515.00
(iii)	Internal Size 0.60 m x 0.90 m	Each	27146.00
(iv)	Internal Size 0.90 mx 1.20 m	Each	77173.00
3.63	Providing and fixing rectangular air tight composite resin (FRP) Grating with frame of approved brand with grade designation C-250 HD as per EN-124 standard. Grating with & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. completein all respect as directed by Engineer in Charge.		
(i)	Internal Size 0.45 m x 0.45 m	Each	11649.00
(ii)	Internal Size 0.50 m x 0.60 m	Each	14950.00
(iii)	Internal Size 0.60 m x 0.75 m	Each	22974.00
(iv)	Internal Size 0.90 m x 0.60 m	Each	24533.00
(v)	Internal Size 0.90 m x 0.90 m	Each	40403.00
(vi)	Internal Size 1.20 m x 0.60 m	Each	35564.00
3.64	Providing and fixing rectangular air tight composite resin (FRP) Grating with frame of approved brand with grade designation D-400 EHD as per EN-124 standard. Grating & Frame shall have top abrasion resistant layer conforming to IS-15658:2006 and permissible permanent set value of 1.9mm after the application of 2/3 test load in five continuous application as per EN-124, the testing shall be performed in fully equipped and NABL certified test lab with random batch test (2% of lot size) as per testing procedure stated in EN-124 standard including fixing with M-20 concrete etc. complete in all respect as directed by Engineer in Charge.		
(i)	Internal Size 0.45 m x 0.45 m	Each	15843.00
(ii)	Internal Size 0.50 m x 0.60 m	Each	20635.00
(iii)	Internal Size 0.60 m x 0.75 m	Each	30964.00
(iv)	Internal Size 0.90 m x 0.60 m	Each	35167.00
(v)	Internal Size 0.90 m x 0.90 m	Each	50930.00
(vi)	Internal Size 1.20 m x 0.60 m	Each	47550.00

CHAPTER : S-4

TUBE WELL

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.1	Construction of tube-well from ground level and upto 100 Meter depth and above sizes in all types of soils in alluvium strata by “bailing” method and without gravel packing as per IS: 2800 (Part - I& II) 1979 specifications (The work includes formation of cavity well at bottom by development with appropriate air compressor or bailer pumping and also lowering of casing pipe but excluding cost of the casing pipe. The tube-well should have a throughout bore as per nominal bore of casing pipe. The work would be completed after obtaining sand free water.)		
4.1.1	100 mm dia Nominal bore.	R Mtr.	279.00
4.1.2	125mm-do-	R Mtr.	319.00
4.1.3	150mm-do-	R Mtr.	347.00
4.2	Construction of Tube-well upto 100 Meter depth and above in all type of rocks by DTH system and over burden, to accommodate casing pipe of following sizes in all types of soils and over burden including lowering of casing pipes, but excluding cost of casing pipes as per IS : 2800 (Part I & II) 1979 specifications. The work would be completed after obtaining sand free water. The tube well should have a throughout bore as per nominal dia of casing pipe:		
4.2.1	100 mm dia Nominal bore.	R.Mtr.	380.00
4.2.2	125mm-do-	R.Mtr.	399.00
4.2.3	150mm-do-	R.Mtr.	666.00
4.2.4	200 mm –do-	R.Mtr.	999.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.3	Construction of <i>tube-well</i> from ground levels and upto 100 Meter depth and above to accommodate housing and assembly pipe of following sizes in all types of alluvium strata by percussion/ rotary drilling method and with gravel as per IS:4097-1967 and packing as per IS:2800 (Part I -& II) 1979 as amended upto date (the work includes the cost of gravel & its primary packing and packing during development, lowering of housing & strainer assembly pipes, with supply and wrapping of coir-rope, wherever necessary, for arresting fine sand particles. The work will not include cost of housing pipe and strainer pipe assembly and development work, but work would be completed after obtaining sand free water).		
4.3.1	150 mm Nominal bore.	R Mtr.	1065.00
4.3.2	200mm –do–.	R Mtr.	1464.00
4.3.3	250mm –do–.	R Mtr.	1863.00
4.4	Development of tube well as per IS specification using suitable compressor to give sand free water for required yield of the gravel packed tube well.	Hr.	600.00
4.5	Supply of <i>ERW M.S. black casing pipe</i> ISI marked (IS:4270/1992) of grade Fe410 of following sizes at site of work.		
4.5.1	100 mm Nominal bore of pipe	Mtr.	822.00
4.5.2	125 mm Nominal bore of pipe	Mtr.	1023.00
4.5.3	150 mm Nominal bore of pipe	Mtr.	1224.00
4.5.4	200 mm Nominal bore of pipe	Mtr.	1728.00
4.5.5	250 mm Nominal bore of pipe	Mtr.	2824.00
4.6	Supply of <i>strainer pipes</i> made of ERW M.S. black pipe ISI mark of following sizes at the site of work including required size of slotting as per IS:8110-1985.		
4.6.1	150 mm Nominal Bore.	Mtr.	1527.00
4.6.2	200mm-do–.	Mtr.	2031.00
4.6.3	250mm-do–.	Mtr.	3126.00
4.7	Testing verticality of tube-well by plumbing system and yield test and draw down test by pumping system as per IS: 2800 (Part II) 1979.	Each	8385.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.8	S & F <i>tube well</i> cover of M.S.sheet (6mm thick) with nuts and bolts complete for casing size:		
4.8.1	100mm dia	Each	186.00
4.8.2	125mm dia	Each	227.00
4.8.3	150mm dia	Each	279.00
4.8.4	200mm dia	Each	373.00
4.8.5	250mm dia	Each	399.00
4.9	S & F M.S. <i>clamp</i> , set of 50 ×6mm flat iron with nuts and bolts etc. for holding the riser pipe assembly of submersible pump set.	Each	266.00
4.10	Supply of 50mm dia G.I. medium class pipe(each length 5.8 m to 6.0m) tripod as per drawing and design with chain pulley of. 3MT capacity	Each	11979.00
4.11	Installation of submersible motor pump set in Tube-well/open well complete (labour charges only) including transportation of tripod, chain pulley block & any other material required for lowering purpose.	Each	3727.00
4.12	P & F 60 cm. wide <i>M.S. ladder</i> in open well made of flat iron 32×5mm and 10mm dia bars @ 200mm c/c with angle iron hold fasts at suitable interval complete as per drawing.	Mtr.	227.00
4.13	Installation of India mark <i>II hand pump</i> set, complete on existing plate form.	Each	932.00
4.14	Construction of 185 cm. dia platform as per approved design and drawing of UNICEF.	Each	2928.00
4.15	Supplying of India mark <i>II hand pump</i> set complete marked with cylinder and ten connecting rods etc. IS 1239	Each	8652.00
4.16	Supplying and installation of 32 mm dia <i>G.I. pipe</i> medium class IS 1239 marked in 3m length including all accessories and fittings required for installation of hand pump.	Mtr.	333.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.17	Supplying and installation of <i>submersible pumping motor pump sets</i> I.S.I. Marked (IS : 8034-1989) of approved make like K.S.B., KIRLOSKAR, Calama etc. or equivalent, making connection suitable for T.W./D.C.B./Open well. The job includes screwing and welding of flanges on G.I. riser pipes, installation of complete fitting and accessories, with riser pipes, jointing of electrical cables and other connections making switch board electrical connections, all labour for testing of submersible pump set and supply of water to water mains, complete in all respect (Refer Electrical BSR)		
4.18	For item of earthing refer to Electrical BSR .		
4.19	For item of submersible cable refer to Electrical BSR.		
4.20	for Item of panel board refer to Electrical BSR		
4.21	Providing & lowering of G.I. Pipes, flange pipe including rubber washer and nuts of 8 mm dia complete in all respect I.S.1239 Marked.		
4.21.1	B Class 50 mm dia	R. Mtr.	498.00
4.21.2	B Class 80 mm dia	R. Mtr.	721.00
4.21.3	B Class 100 mm dia	R. Mtr.	952.00
4.22	Un-lowering of submersible pump set with all piping from a tube-well/ open-well complete (labour charge only) including transportation of tripod, chain, pulley-block and other materials required and lowering of repaired/ new pump in the tube-well / open-well complete in all respect.	Each Job	4659.00
<u>RAIN WATER HARVESTING</u>			
4.23	Construction of tubewell up to 100m depth and above to accomodate housing and assembly pipe in all types of alluvium strata by rotay drilling method with "code of practice for construction and testing of tubewells (IS:2800 (Part-II) : 1991 and IS:2800 (Part-II) :1979 both amended up to date) with supply of bail plug if necessary.The work will not include cost of housing pipe and strainer pipe assembly cost, gravel and development work. Work would be deemed completed only after obtaining sound free water during pumping.		
4.23.1	150 mm nominal bore	Rm	799.00
4.23.2	200 mm nominal bore	Rm	1198.00
4.23.3	250 mm nominal bore	Rm	1597.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.24	Construction of Recharge Shaft in filter pit including Earth work Excavation , lifting excavated earth with all lift and 50 m lead and centering & shuttering evenever required.		
4.24.1	Diameter 900 mm	Rm	266.00
4.24.2	Diameter 750 mm	Rm	233.00
4.25	Supply & fixing Pre-cast RCC Rinngs at the mouth of recharge shaft of M20 mix with 40 mm thickness		
4.25.1	Diameter 900 mm	Rm	766.00
4.25.2	Diameter 750 mm	Rm	666.00
4.26	Supply & lowering air line of 25mm dia, G.I. pipe 'B' class having perforation 3 to 5mm size all arrow of G.I. pipe in Zig-Zag fashion & making air vent at top including the cost of Tee-Nipples, Elbow, Socket etc.	Rm	300.00
4.27	Supply and lowering vent air pipe 63mm dia rigid PVC pipe(IS 4985) mark class II (4kg per cm ²) with required all necessary fittings including perforation of 3 to 5 mm size all around the pipe at a distance of 180 to 220mm in zig zag fashion and making air vent at top complete as per direction of Engineer incharge.	Rm	154.00
4.28	Supply & lying River-gravels of following sizes in recharge shaft, filter pit after screening & washing from kachha shift without deduction of voids		
4.28.1	Size 9 to 12 mm	Cum	1997.00
4.28.2	Size 3 to 5 mm	Cum	2928.00
4.29	Supply & laying of clean, clear sharp river sand of size 1 to 2mm coarse, without deduction of voids.	Cum	3727.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

CHAPTER H-1

SUPPLY OF MANURE, INSCTICIDES,

Note : The rates are inclusive of all taxes etc. and for estimation purpose only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.1	Supply of dry manure including unloading, transportation & stacking at site.		
1.1.1	Farm yard manure(organic)	Cum.	720.00
1.1.2	Compost	Cum.	960.00
1.1.3	Goat dungmanure.	Cum.	1200.00
1.1.4	Vermi compost	Per 50 kg Bag	250.00
1.1.5	Neemcack	Per 50 kg Bag	1250.00
1.2	Supply of Chemical Fertilizers at store in bags weighing not less than 50 kg each including loading unloading & transportation		
1.2.1	Urea	Per 50 kg Bag	400.00
1.2.2	DAP	Per 50 kg Bag	1500.00
1.2.3	Super Phosphate	Per 50 kg Bag	350.00
1.2.4	Murrate of Photash	Per 50 kg Bag	450.00
1.2.5	Straw Meal	Per 50 kg Bag	1080.00
1.2.6	Bonemeal	Per 50 kg Bag	1800.00
1.2.7	Calcium Nitrate	Per 50 kg Bag	2500.00
1.3	Supply & Stacking good soil of earth at site complete including loading unloading & Transportation etc.		
1.3.1	Good soil of earth	Cum.	240.00
1.4	Supply of insecticides & Pesticides at store in dust/liquid form complete.		
1.4.1	Methyl Prathion 2%	Per 25 kg Bag	500.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.4.2	Karathion (Liquid)	Per 250 ml	600.00
1.4.3	Metacid(Liquid)	Per Litre	444.00
1.4.4	Rogor(Liquid)	Per Litre	325.00
1.4.5	Cholorophyriphos 20 Ec.	Per Litre	400.00
1.4.6	Bauiston 50%	Per 100 Grams	120.00
1.5	Supply of Garden Tools & implements at store complete.		
1.5.1	Spade weighing 1.5kg with Handle	Each	175.00
1.5.2	Khurpa weighing 500gm with Handle	Each	90.00
1.5.3	Gurvana weighing 800 gm with Handle(Kamani Steel)	Each	108.00
1.5.4	Hedge Shear(Kamani Steel)	Each	720.00
1.5.5	Secaetur	Each	360.00
1.5.6	Garden Rack with Handle	Each	192.00
1.5.7	Pick Axe	Each	180.00
1.6	Supply of different sized pots at site store including loading unloading & transportation etc. complete.		
1.6.1	Cement pot 300 mm size	Each	150.00
1.6.2	Cement pot 350 mm size	Each	216.00
1.6.3	Cement pot 375 mm size	Each	
1.6.4	Cement pot 450 mm size	Each	
1.6.5	Cement pot 525 mm size	Each	
1.6.6	Asbestos pot 350 mm size	Each	120.00
1.6.7	Asbestos pot 400 mm size	Each	
1.6.8	Asbestos pot 450 mm size	Each	
1.6.9	Asbestos pot 600 mm size	Each	
1.7	Supply of different sized earthen pots at site/store including loading unloading & transportation etc.complete		
1.7.1	Earthen pot 150 mm size	Each	18.00
1.7.2	Earthen pot 225 mm size	Each	30.00
1.7.3	Earthen pot 300 mm size	Each	43.00
1.7.4	Earthen pot 350 mm size	Each	125.00
1.7.5	Earthen pot 225 mm size(Kundi shape)	Each	30.00
1.7.6	Earthen pot 300 mm size(Kundi shape)	Each	45.00
1.7.7	Earthen pot 350 mm size(Kundi shape)	Each	125.00
1.8	Supply of different sized lawn mower including transportation etc. as store complete.		
1.8.1	300 mm size Hand Lawn Mower(Roller Type)	Each	4320.00
1.8.2	350 mm size Hand Lawn Mower(Roller Type)	Each	4800.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.8.3	450 mm size Hand Lawn Mower(Roller Type)	Each	
1.8.4	500 mm size Hand Lawn Mower(Roller Type)	Each	
1.8.5	600 mm size Hand Lawn Mower(Roller Type)	Each	
1.8.3	300 mm Electric Lawn Mower	Each	18000.00
1.8.4	350 mm Electric Lawn Mower	Each	20000.00
1.8.5	400 mm Electric Lawn Mower	Each	22000.00
1.8.6	450 mm Electric Lawn Mower	Each	25000.00
1.8.7	500 mm Electric Lawn Mower	Each	28000.00
1.8.8	Electric Lawn Mower sarfex 16 EL	Each	30000.00
1.8.9	Electric Lawn Mower sarfex 18 EL	Each	36000.00
1.8.10	Electric Lawn Mower sarfex 21 EL	Each	40000.00
1.9	Supply of different size Tokaras/Tokaries etc at store complete		
1.9.1	Big size(600mm dia)	Each	150.00
1.9.2	Small size(450 mm dia)	Each	90.00
1.9.3	Jute Band(Ssutli)	Per kg	140.00
1.9.4	Broom (Bamboo)	Per kg	50.00
1.9.5	Anti Bird Net	Rmt	25.00
1.9.6	Shed Net 50%	Sqm	25.00
1.9.7	Shed Net 75%	Sqm	30.00
1.9.8	Shed Net 90%	Sqm	35.00
1.10	Supply of PVC hose pipe of different sizes at store including transportation etc. complete.		
1.10.1	50 mm dia	R/Mtr.	165.00
1.10.2	38 mm dia	R/Mtr.	140.00
1.10.3	25 mm dia	R/Mtr.	80.00
1.10.4	17 mm dia	R/Mtr.	65.00
1.10.5	12.5 mm dia	R/Mtr.	45.00
1.11	Supply of different varieties of tree/shrubs/climbers according to height and age of the plant at site including loading/unloading & transportation etc.complete		
1.11.1	Different flowering plants 900mm to1500mm	Each	50 to 150
1.11.2	Different varieties of shrubs 600mm to 900 mm	Each	25 to 160
1.11.3	Different varieties of climbers 900mm to 1500 mm	Each	48 to 144
1.12	Supply of different varieties of bougainvillea in ply bags/earthen pot according to height growth and age of plant at site including loading unloading and transportation etc. complete		
1.12.1	Local variety of bougainvillea 600mm to 900mm	Each	25 to 60
1.12.2	Different varieties of bougainvillea 600mm to 900mm	Each	60 to 120

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.13	Supply of different varieties of rose plants in poly bag/ earthen pot according to height growth and age of the plant at site including loading unloading and transportation etc. complete		
1.13.1	Desi rose / root stock plant	Each	40 to 50
1.13.2	Ganganagari rose plant in poly beg	Each	80 to 125
1.13.3	Different varieties of grafted rose plants in poly bag	Each	84 to 102
1.13.4	Different varieties of grafted rose plants in poly pot/earthen pot	Each	200 to 250
1.14	Supply of different varieties of palms in poly bags/earthen pot according to height growth and age of plant at site including loading unloading and transportation etc. complete		
1.14.1	Raffish palm 2 to 2.2 feet	Each	350.00
1.14.2	Deshi palm 2 to 3 feet	Each	150.00
1.14.3	China palm 1 to 1.5 feet	Each	125.00
1.14.4	Arica palm many branches 5 to 6 feet	Each	400 to 500
1.14.5	Bottle palm 5 to 8 feet	Each	700 to 900
1.14.6	Fox tale palm 5 to 8 feet	Each	900 to 1200
1.14.7	Fish tale palm 5 to 8 feet	Each	900 to 1200
1.14.8	T cycuss 3 feet 5 feet	Each	900 to 1200
1.15	Supply of different varieties of indoor plants in poly bags/earthen pot according to height growth and age of plant at site including loading unloading and transportation etc. complete		
1.15.1	Deshi crotons	Each	50 to 60
1.15.2	Selective varieties of crotons 2 to 3 feet	Each	72 to 180
1.15.3	Crotons Bangalore 1.5 to 2 feet	Each	250 to 2300
1.15.4	Rubber plants etc	Each	120 to 150
1.15.5	Arica palm	Each	
1.15.5	DAFFEN Bachia 1.5 to 2 feet	Each	100 to 250
1.15.6	Song of India 1.5 to 2.5 feet	Each	100 to 200
1.15.7	Aglonmia 1.5 to 2 feet	Each	110 to 175
1.15.8	Drassina 1 to 2 feet	Each	100 to 240
1.15.9	Sin gonium with moss stick 2 to 3 feet	Each	125 to 250
1.15.10	Cycussevelta 50mm to 75 mm dia	Each	1200
1.15.11	Furcaria gignita 50mm to 75 mm	Each	900 to 1000
1.15.12	Different fucus plants tolairy 100mm to 125 cm height	Each	800 to 1000

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.15.13	Different champa 125 cm to 215 cm height	Each	400 to 900
1.16	Supply of different varieties of blubs including loading unloading and transportation etc. complete		
1.16.1	Supply of different varieties of caladium blubs	Each	18.00
1.16.2	Supply of different varieties of amrilis lilly bulb	Each	25.00
1.16.3	Supply of tube rose bulbs	Each	12.00
1.16.4	Supply of hemaniths bulb	Each	28.00
1.16.5	Supply of Asiatic Lilly bulb	Each	30.00
1.16.6	Supply of oriental lilly bulb	Each	42.00
1.16.7	Supply of different variety of gladioli bulb	Each	18.00
1.17	Supply of flower Garlands & Flower petal's including transportation at site.(Complete)		
1.17.1	Merigold Garland A Class (Big flowers) 2 feet long	Each	75.00
1.17.2	Merigold Garland B Class (Small flowers) 1.5 feet long	Each	50.00
1.17.3	Green Garland (Ashok Leaf) 2 feet long	Each	15.00
1.17.4	Rose Garland 1.5 feet long	Each	125.00
1.17.5	Jalus Garland(VIP A Class) Double fold	Each	500.00
1.17.6	Jalus Garland(VIP B Class) Single fold	Each	400.00
1.17.7	Mogra Garland 1.5 feet long	Each	125.00
1.17.8	Kunj Garland 1.0 feet long	Each	150.00
1.17.9	Rose petal's	Per Kg.	400.00
1.17.10	Merigold petal's	Per Kg.	250.00
1.17.11	Crisenthimum petal's	Per Kg.	300.00
1.17.12	Chandine flower	Per Kg.	300.00
1.17.13	Mogra Flower	Per Kg.	450.00
1.17.14	Kunj Flower	Per Kg.	475.00
1.18	Supply of Cut Flower at site including transportation Complete		
1.18.1	Tata Rose	Each	15.00
1.18.2	Carnation	Each	18.00
1.18.3	Gladioli	Each	20.00
1.18.4	Tube rose single	Each	12.00
1.18.5	Tube rose double	Each	15.00
1.18.6	Ilium Asiatic	Each	75.00
1.18.7	Ilium Oriental	Each	125.00
1.18.8	An thorium	Each	75.00
1.18.9	Arched Mix	Each	40.00
1.18.10	Zarbera	Each	20.00
1.18.11	Dasy	Each	25.00
1.18.12	Chrysanthemum	Each	20.00
1.18.13	Candytuft	Each	4.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
1.18.14	Aster	Each	6.00
1.18.15	Lotus	Each	40.00
1.19	Supply of Flower Bucket & flower Bunch at site including transportation (Complete)		
1.19.1	Flower Bunch / Bucket (20 Roses)	Each	500.00
1.19.2	Flower Bunch / Bucket (30 Roses, Carnation)	Each	700.00
1.19.3	Flower Bunch / Bucket (7 Lily & 15 Roses)	Each	950.00
1.19.4	Flower Bunch / Bucket (10 Lily, 20 Roses & Carnation Mix)	Each	1800.00
1.19.5	Flower Bunch / Bucket (15 Lily)	Each	1650.00
1.19.6	Flat Flower Bucket (20 Mix Flower's)	Each	490.00
1.19.7	Flat Flower Bunch (25 Mix Flower's) lily Carnation Rose	Each	1200.00
1.19.8	Flower Bunch / Bucket (Small 15 Flower Stic)	Each	400.00
1.19.9	Flower Bunch / Bucket (10 Roses, 5 Carnation)	Each	350.00
1.19.10	Flower Bunch / Bucket (15 Roses)	Each	280.00
New Items			
1.20	Hybrid Seasonal Plants of Flowring		
1.20.1	In P.B many branches (7"X8")	Each	32.00
1.20.2	In Tray (100 Plants)	Each	1000.00
1.20.3	Fully developed many branches Daheliya plant in pots (12" Pot's)	Each	150.00
	Fully developed many branches Chrysanthemum(Guldaudi)		
1.20.4	Plants Special varieties in pots (12" Pot's)	Each	125.00
1.20.5	Fully developed many branches Marigold in pots	Each	125.00
1.21	Ground Cover of various varieties		
1.21.1	Syngonium in P.B(7"X8") - 6"-1'	Each	60.00
1.21.2	Ribbion grass P.B (7"X8") - 6"	Each	50.00
1.21.3	Lalsaggin P.B(5"X5") - 6"	Each	12.00
1.21.4	Lenthraein P.B - 6"	Each	12.00
1.21.5	Vadaliain P.B - 6"	Each	8.00
1.21.6	Jade Plant in P.B(7"X8") - 6"	Each	40.00
1.21.7	Pendanus in P.B(9"X11") - 1'	Each	85.00
1.22	Hedges of various varieties		
1.22.1	Golden durantain P.B(5"X6") - 6"-1'	Each	20.00
1.22.2	TecomaGoudichoudi in P.B(9"X11") - 2'	Each	80.00
1.22.3	Enarmi in P.B(5"X5") - 1'	Each	15.00
1.23	Diffrant varieties of Scented Plants		
1.23.1	Mograin P.B(9"X11") - 1'	Each	80.00
1.23.2	Gardenia in P.B(9"X11") - 1'	Each	100.00
1.23.3	Juhuin P.B(9"X11") - 1'	Each	80.00
1.23.4	Kunjin P.B(9"X11") - 1'	Each	80.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
	Madhukamini(Round Shaped dwarf variety)		
1.23.5	in P.B(9"x11") -1'	Each	125.00
1.23.6	Raat Rani in P.B(9"x11") - 2'-3'	Each	80.00
1.24	Ornamental Plants of different varieties		
1.24.1	Arucaria Plant in P.B(9"x11") - 1½' - 2'	Each	225.00
1.24.2	Saplera variegated in P.B(9"x11") - 1'-2'		110.00
1.24.3	Money Plant in P.B(9"x11") - 1'	Each	80.00
1.24.4	Money Plant (with moss stick) In (12" Pot's) - 2'-3'	Each	300.00
1.24.5	Florodendon Plant in P.B(9"x11") - 1'	Each	100.00
1.24.6	Florodendon Plant in round shape pot (12" Pot's) 1½' - 2'	Each	285.00
1.24.7	Phonic Palm in P.B(15"x15") - 2'-3'		280.00
1.24.8	Ixora Palm Many branches at flowring stage in P.B(12"x12") - 2'-3'	Each	200.00
1.24.9	IxoraChinesisin Pot (8" Pot's) - 6"-1'	Each	150.00
1.24.10	Silver Eucain P.B(9"x11") - 1'-2'	Each	100.00
1.24.11	Umbrella Palm in P.B(9"x12") - 2'	Each	90.00
1.24.12	Salem in Pot (12" Pot's)- 2'	Each	205.00
1.24.13	Canna variegated, yellow, red and pink etc. In P.B(8"x8") - 6"-1'	Each	40.00
1.24.14	Geranium in P.B(9"x11") - 1'	Each	85.00
1.24.15	Euphorbia Milii D.varietiesin P.B(12"x2") - 1'-1½'	Each	140.00
1.24.16	Kalanchoe of Different varieties in P.B(8"x8") - 6"-1'	Each	125.00
1.24.17	Bamboo plant of Different varieties in P.B(12"x12") - 2'-3'	Each	210.00
1.24.18	Bamboo plant of Different varieties P.B(14"x14") - 4'-5'	Each	445.00
1.24.19	Nolinaplamin P.B(12"x12") - 1'-2'	Each	160.00
1.24.20	Mussaenda plant of many branches in P.B(12"x12") - 1½'-2½'	Each	180.00
1.24.21	Different varieties of Ficus plant in P.B(9"x11") - 2'	Each	125.00
1.24.22	Different varieties of Poinsettia in Fiber pot (10" Pot's) - 1'	Each	300.00
1.24.23	Spathiphyllum (peace lily) in pot (8" Pot's) - 6"-1'	Each	125.00
1.24.24	ThujaOrientalis plant (12" Pot's) 1'-2'	Each	200.00
1.25	Different varieties of Shady plants		
1.25.1	Height 5'-6' (14"x14") Many Branches	Each	125.00
1.25.2	Height 7'-8' (18"x18")Many Branches state steam	Each	250.00

CHAPTER H-2

MAINTENANCE OF GRADENS

Note : The rates are inclusive of all taxes etc. and for estimation purpose only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

2.1	Maintenance of lawn		
2.1.1	Spreading of manure , good earth in required thickness (cost of manure and good earth to be separately)	cub	24.00
2.1.2	Irrigation of lawn	Per hect. Per day	1440.00
2.1.3	Uprooting weeds from the lawn plots and trenched area after 10 to 15 days of its flooding with including disposal of uprooted vegetation	100 sqm	240.00
2.1.4	Moving manually / with power machines		
(a)	Manually	Per hect	1560.00
(b)	with power machine	Per hect	1200.00
2.1.5	Maintenance of shrubbery or hedges cutting including disposal of rubbish with all leads and lifts	100 sqm	480.00
2.1.6	Sweeping / cleaning of gardens roads lawns paths and disposal of all rubbish	100sqm	3.50
2.1.7	Security of the garden per gate for 24 hours in 3 shift with the exilitary persons	Per day 24 hours	19440.00
2.1.8	Maintenance /fitting of permanent ornamental pots/ seasonal pots		
(a)	Mixing earth and manure in per portion as specified or directed for pots	cum	42.00
(b)	Filling and planting of sapling and watering of pots	Per 100 pots per day	180.00
(c)	Weeding hoeing stacking and coloring of pots material will be supplied by the department	Per 100 pots per day	180.00
2.1.9	Preparation of beds for budging and shrubbery by excavating 60cms. Deep and trenching the excavated base to a further depth of 30 cms . refilling the excavated earth after breaking clods and mixing with manure in ratio of 8:1 (8 part of stacked volume)	Each	24.00

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
2.2	Digging pits in ordinary soil and refilling the same with the excavated earth mixed with manure in the ratio of 2:1 by volume (2parts of stacked volume of earth after reduction by 20% 1 part of stacked volume of manure after reduction by 8%) flooding with	each	24.00
2.3	Planting of annual saplings watering in the bed	sqm	2.40
2.4	watering of group plantation in bed	sqm	0.30
2.5	Preparation of edging lawn	Rmt	0.72
2.6	Group plantation in the bed at specified place	sqm	2.40

CHAPTER H-3

DEVELOPMENT OF GRADENS

Note : The rates are inclusive of all taxes etc. and for estimation purpose only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

3.1	Laying of lawns including ploughing leveling breaking of clods manuring and removal of stones etc. (cost of manure or extra good earth to be paid separately)maintenance of lawn for 30 days or more till the grass forms a thick lawns free from weeds and fit for moving in the duration of planting if lawn die some where the contractor will replant it at his own cost			
3.1.1	In rows 15 cm apart in either direction	100 sqm	3000.00	
3.1.2	in rows 7.5 cm apart in either direction	100sqm	5500.00	
3.1.3	in rows 5 cm apart in either direction	100 sqm	6600.00	
3.1.4	Laying of Selection No.1 grass tiles (2'X2' size) for development of garden, including levelling of soil and spreading of manure	sqm	250.00	
3.1.5	Maxican(Carpet) grass tiles (2'X2' size) for development of garden, including levelling of soil and spreading of manure	sqm	400.00	
3.1.6	Dugging of weedy soil from garden including loading and unloading of the soil and throwing it away out of the city	Cum	250.00	
3.2	Renovating lawns including weeding cheeping the grass forking the ground top dressing with manure . Mixing the same with forked soil watering maintaining the lawn for 30 days for till the grass forms a thick lawns free from weeds and fit for moving in the duration of planting if lawn die some where the contractor will replant it at his own cost	100sqm	4500.00	
3.3	Planting of trees /shrubs/ hedge and climbers plants at desired distance in row and watering	100 plants	30.00	
3.4	Preparation of different sized bed as directed	100 sqm	456.00	

CHAPTER H-4

MAINTENANCE OF RODS SIDE PLANTATION

Note : The rates are inclusive of all taxes etc. and for estimation purpose only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4
4.1			
(a)	Preparation of soil including cleaning & removing of unwanted shrubs removal of stones & Garbage.	Per 100 Sqm	150.00
(b)	Digging of pits size 60x60x60 cms. Including removal of stones Manuring applicable of insecticides & watering atleast 15 litre per plant after plan ting.	Per Pit	30.00
(c)	Loading & unloading of plant from Deptt.Nursery to site per km.	Per 1000 Plants	150.00
(d)	Preparation of Thavala sizing 60 cms. Diametre & 10 cms. Deep once in a month.	Per Thawala	1.20
(e)	Inter cultural operations hoeing & weeding etc. in 90 cms. Dia & 15 cms. Deep.	Per Plants	2.00
(f)	Watering of plants with the own tanker i.e. at least 20 liter water for plant at one time	Per Plants	1.40
(g)	Transportation of tree guards from Depot to the plantation site including loading & unloading.	Per Tree Guard	18.00
(h)	Security of plants & fencing etc.	Per Plant Per month	0.90
(i)	Prunning & trumming and cutting of old big trees on the road side The contractor will deposit the cut wood in the Deptt.	Per tree	120.00
4.2	Maintenace of Plants by the contractor including of pits/bids watering preparation of Thavala Hoeing weeding etc. & application of insecticides etc. & security if the plant die during maintenance contractor has to replace same height plant at his own cost.	Per Plant Per month	18.00

CHAPTER H-5

DETAIL OF PLANTATIONS AND MAINTENANCE OF PLANTS ON ROAD SIDE FOR FIVE YEARS

Note : The rates are inclusive of all taxes etc. and for estimation purpose only.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

5.1	Supply & Planting of shady plants (Neem, Peepal, Goolar, Per Plant Jamun, Imli or other specified) along road side including the following activities:-	1886.00
(i)	Preparation of soil including cleaning & removing of unwanted shrubs removal of stones & garbage.	
(ii)	Supply of plant at site of two years of age & height more than 1.50 Mtr.	
(iii)	Supply of dry manure(Farm yard manure organic)	
(iv)	Supply of Insecticides.	
(v)	Digging of pits size 60x60x60 cms. Including removal of stones. Manuring application of insecticides & watering at least 1.5 Liter per plant after planting	
(vi)	Half brick Circular tree guard in second class bricks, internal dia 1.25 meter and height 1.20 meter above ground and 0.20 meter above ground and 0.20 meterr below ground. Bottom two courses laid dry and top three courses in cement mortar 1:6 (1 Cement : 6 Sand) and the intermediate courseses being in dry honey comb masonry. As per design complete.	
(vii)	Watering to plants	
(viii)	Maintance of plants by the contractor including pits, preparation of Thavala Hoeing weeding etc & application of insecticidies etc. & security. If the plant die during maintence contractor has to rplace same heingh plant at his own cost.	
5.2	Supply & Panting of ornamental plants (Kachnar, Amaltas, Per Plant Gulmohar, Arjun, Kala, Siris, Jacranda etc. or other specified) along road side including the following activities :-	2198.00
(i)	Preparation of soil including cleaning & removing of unwanted shrubs removal of stones & garbage	
(ii)	Supply of plant at site of two years of age & height more than 1.50 Mtr.	
(iii)	Supply of dry manure(Farm yard manure organic)	
(iv)	Supply of Insecticides	
(v)	Digging of pits size 60x60x60 cms. Including removal of stones. Manuring application of insecticides & watering at least 1.5 liter per plant after planting.	

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

- (vi) Half brick Circular tree guard in second class bricks. Internal dia 1.25 meter and height 1.20 meter above ground and 0.20 meter below ground. Bottom two courses laid dry and top three courses in cement morter 1:6(1 Cement : 6 Sand) and the intermediate courses being in dry honey comb masonry. As per design complete.
- (vii) Waterring to Plants.
- (viii) Maintenance of plants by the contractor including pits. Preparation of Thavala Hoeing weeding etc. & application of insecticides etc. & security. If the plant die during maintencance contractor has to replace same height plant at his own cost.
- 5.3 Planting & Maintenance of shrubs. Per Plant 1069.00
- Planting of shrubs in central verge
- (i) Preparation of soil including cleaning & removing of unwanted shrubs removal of stones & garbage.
 - (ii) Supply of plant at site like Bouganvillia & Kaner.
 - (iii) Supply of dry manure(Farm yard manure organic)
 - (iv) Supply of Insecticides
 - (v) Digging of pits size 60x60x60 cms. Including removal of stones. Manuring application of insecticides & watering at least 1.5 liter per plant after planting.
 - (vi) Waterring to Plants.
 - (vii) Maintenance of plants by the contractor including pits. Preparation of Thavala Hoeing weeding etc. & application of insecticides etc. & security. If the plant die during maintencance contractor has to replace same height plant at his own cost.

Chapter Code No	Description	Unit	Rate (Rs.)
1	2	3	4

OFFICE OF THE CHIEF ENGINEER, PWD (B & R), RAJASTHAN, JAIPUR.

CIRCULAR No. 19 (Building 6)

Sub : General Instructions to be followed while preparing detailed estimates.

It has been observed that while submitting estimates for Technical sanction instructions contained in Section 5 of the Manual of Orders of PWD/B&R and those issued by previous Circular are not followed strictly, it is therefore, enjoined upon all the detailed estimates for works costing more than Rs. 3.00 lacs and requiring technical sanction by Addl. Chief Engineer and submitted to this office should contain the following schedules and details :

1. SCHEDULES :

1.1 Schedule-I (Technical Report) :

Proforma at Annexure 'A' may be used for submission of a detailed report which should be full & comprehensive and preferably written by the Executive Engineer.

1.2 Schedule-II (General Abstract) :

It should indicate abstract cost of the sub-work included in the sanctioned proposal and provide for the increase in the market rates as may be approved by Superintending Engineer.

1.3 Schedule-III

Detailed estimates of each sub-work with abstract of cost and details of quantities.

1.4 Schedule-IV (Drawing) :

- (a) The drawings accompanying the detailed estimates should be as follows :-
 - (i) A site plan showing the situation of the proposed building with reference to others, the various structure in proximity to the intended site, the North point, the prevailing direction of the wind and other matters capable of graphic delineation which may have influenced the selection.
 - (ii) A ground floor plan or plans of the building and plans of the foundations and of various storeys as required.
 - (iii) Section through the buildings of such number and in such directions are necessary to exhibit the intended form and dimensions of every part.
 - (iv) Such elevations as are necessary.

- (v) A drawing or drawings showing the general arrangement of the floor and roof and the distribution of timbers, iron work etc. and such working drawing as will enable the officer responsible for the project to judge the details.
- (b) The drawings should bear the signatures of authority approving the plan and other details duly attested by Superintending Engineer.
- (c) The drawings should clearly indicate the proposed works, existing portions, dismantling work (if required in the existing building) in different colours.

2. GENERAL CONDITIONS :

- 2.1 The total estimated cost of the proposed construction should not exceed the Administrative sanction. Only such work which can be built within the sanctioned amount should be included in the detailed estimate. Detailed estimate for the portion of work, which is although essential as per requirement of concerned department but can not be included on account of inadequate sanction may be submitted as part 'B' to facilitate to move the case for Revised/Supplementary Administrative sanction.
- 2.2 In the case of estimate for Additions and Alterations the drawings and specifications of existing buildings should also be submitted along with the estimate. If there is any deviation from existing specifications, proper justification for the changes may be reported.
- 2.3 Estimate should be submitted in quadruplicate so that a copy of sanctioned estimate may be retained in Chief Engineer's office and the remaining three could be made available for circle, divisional and sub divisional office.
- 2.4 In the detailed estimates, the dimensions assumed in working out the quantities should be susceptible of identification of the dimensions shown on the drawings. Cross references to the dimensions of the estimates and also drawings should be indicated.
- 2.5 The items of detailed estimate should conform to the specifications described in technical report and also the PWD specifications.
- 2.6 Provisional rates for non-BSR items must be supported invariably by detailed rate analysis approved by Superintending Engineer.
- 2.7 All building estimate must include detailed estimates for sanitary, electrification, water supply and development works and no lump-sum provision on percentage basis should be provided in the estimate.
- 2.8 Estimates for works incorporating RCC items must include complete RCC details and bar bending schedules so as to facilitate in arriving at the correct quantities of concrete and steel.
- 2.9 Wherever necessary, detailed estimates may be supported by sketches to supplement drawings.

- 2.10 It those cases where a portion of work or entire work has already been taken in hand/executed before issue of sanction the quantities of complete portion should be taken as per actual measurements and a certificate to this effect may be recorded by the Executive Engineer. The specifications already adopted should also be clearly indicated in the technical report.
- 2.11 Detailed design for foundations and other structural components should be sent alongwith the estimate.
- 2.12 The type of soil met within the foundation, the test carried out for assessing the SBC of the soil at the foundation level, the SBC of the soil and the justification for the type of foundation adopted should be given.
- 2.13 The Executive Engineer and Superintending Engineers should particularly examine the foundation, the specifications for floors, roof windows and doors, ornamental features, finishing item etc. and observe in the forwarding letter or in the report itself the need for adopting expensive specifications.

Annexure ‘A’ to Circular No. 19 (Building-6)

TECHNICAL REPORT

1. GENERAL

- 1.1 Name of Work
- 1.2 Circle
- 1.3 Division

2. AUTHORITY

- 2.1 Reference of Sanction
- 2.2 Amount of Administrative/Financial sanction (including/excluding the prorata charges).
- 2.3 Reference and Abstract details of Forecast estimate (if any).
- 2.4 Reference of Technical sanction of work if any issued earlier.

3. LOCATION AND LAND

- 3.1 Location
- 3.2 Area
- 3.3 Possession taken over/not taken over.

4. REFERENCES OF APPROVED DRAWING

S. No.	Details	Drawing No.	Authority
1.	Site Plan		
2.	Plans		
3.	Sections		
4.	Elevations		
5.	Details of components.		
6.	Sanitary, Water Supply and Drawing		
7.	Electrifications		
8.	Other drawings.		

5. DISCUSS THE PLANS SECTION & ELEVATIONS GENERAL

6. ESTIMATED COST

Estimated cost of portion shown in 'Red' Drawing No..... including/exclusive of prorata charges has been worked out as Rs.....

7. SOURCE OF MATERIAL

8. TYPE OF SOIL/S.B.C.

9. BRIEF SPECIFICATION (In case of A/A specification of existing may also be indicated)

- 9.1 Foundation concrete.
- 9.2 Masonry in Foundation and plinth.
- 9.3 Damp proof course.
- 9.4 Superstructure (Type and specifications)
- 9.5 Lintels, Sun-shades etc.
- 9.6 Roofing
- 9.7 Interior finish
- 9.8 Exterior finish
- 9.9 Flooring (a) Base (b) Finish
- 9.10 Skirting and Dados
- 9.11 Windows (Frame, Panels, Wire gauging, Safety bars)

- 9.12 Doors (Frame and Shutters)
 - 9.13 White/Colour/Cement lime/Decorative finish
 - 9.14 Painting of Doors, Windows and Walls
 - 9.15 Electrification (Type of Wiring, Fittings and Fixtures)
 - 9.16 Sanitary & Water Supply
 - 9.17 Compound wall and it's gate
 - 9.18 Other specifications.
- 10. SPECIAL FITTINGS AND FIXTURES (Fans, Tube-lights, Exhaust, Pumps, Elevators etc.)**
- 11. AGENCY FOR EXECUTION**
- 12. PRESENT STAGE OF EXECUTION**
- 13. COST ANALYSIS**
- 13.1 B.S.R. adopted and premium approved by Superintending Engineer.
 - 13.2 Tender Premium (Received/expected).
 - 13.3 Total plinth area.
 - 13.4 Break up of cost.
- | S.No. | Component | Total Cost | Cost/Sqft. | % age of total cost |
|-------|--------------------------|------------|------------|---------------------|
| (a) | Foundation & plinth | | | |
| (b) | Superstructure work | | | |
| (c) | Roofing. | | | |
| (d) | Doors, Windows & Frames. | | | |
| (e) | Flooring. | | | |
| (f) | Finishing. | | | |
| (g) | Sanitary & water supply. | | | |
| (h) | Electrification. | | | |
| (i) | Development. | | | |
| (j) | Other items. | | | |

Total-

Total plinth area cost of Rs...../Sft. is higher/lower than the plinth area rate Rs..... adopted in forecast estimate.

14 OTHER SALIENT FEATURE THAT NEEDS SPECIFIC MENTION

Assistant Engineer

Executive Engineer

Superintending Engineer

Name of Work : Forecast Estimate for _____

S. No	Compo- nent	Cost of Construction				Land		Special Fixtures Fan etc.	Other Expenses	Total (G) To (K)	Conting- encies & Super- vision Charges 1.5% Of (L)	Quality Control 1% of (L-H)	Total (M+N)	Prorata Charges 13% of (L)	Grand Total (I+ O+ P)	Remarks	
		Plinth Area	Plinth Rate	Cost	Internal Service 21%	Total (E+F)	Cost										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)

Junior Engineer

Assistant Engineer

Executive Engineer

CIRCULAR No. 36

(6 Building)

Check-list for taking over newly constructed buildings from contractors

It has been observed that at the time of handing over the completed buildings by this department to client department/users lot of deficiencies are pointed out/reported by them. This is due to the fact that while taking over these buildings from building contractors or other agencies, the departmental officers do not examine them carefully and meticulously. Also no uniform and proper procedure is adopted at present for the inspection of such completed buildings except for checking items executed as per nomenclature mentioned in the 'G' Schedule of agreements. To overcome this difficulty, a check-list for taking over/handing over of such buildings is enclosed to enable the departmental officials to examine/inspect the buildings at the time of their taking over/handing over in a systematic manner.

The check-list is in two parts (Part-I & II) and should be adopted for inspection at the initial stage and then after 3-4 months specially during rainy season. These be prepared by concerned Engineering Sub-ordinate incharge of work at the time taking over building/elect. Works/sanitary works from respective contractors and shall be countersigned by AEN Incharge of the work after necessary test-check of the list. One copy of such taking over would always be kept in the record of the concerned Ex. Engineer for information and reference. Superintending Engineers will inspect these records during their periodical inspections of the works of the divisions.

Sd/-

(M.M. SWAROOP)
Chief Engineer, PWD
Rajasthan : Jaipur

BUILDING DIGEST

CENTRAL BUILDING RESEARCH INSTITUTE, INDIA

CHECK-LIST FOR TAKING-OVER NEWLY CONSTRUCTED BUILDING

INTRODUCTION

A large number of construction activities are being carried out by various organizations such as CPWD, MES, State PWD, Housing Boards, Development Authorities, Improvement Trust and Private Sector. There is a greater demand for the construction of houses on outright sale basis. It has been observed that a number of complaints about the newly constructed buildings are received by the authorities from the buyers/user at the time of taking over the houses. Since there is mass construction going on, it has been observed that before taking over the building from the builder/contractor, the departmental authorities are not able to examine the buildings carefully. There are no proper guidelines laid down for the inspection of buildings at the time of taking over, except the general conditions as laid down in the specifications for the construction. There are several items involved in building and unless these are clearly defined and listed, it is not feasible to check them. To meet the demand, a check-list has been prepared to enable the authorities to examine/inspect the salient features before taking over the buildings. Such lists should be prepared for every building and in case of large buildings, the same may be divided in convenient parts and separate check-list prepared for each part.

APPROACH

An endeavor has, therefore, been made to give a check-list covering the different items so that the inspecting authorities, before taking over the buildings, can examine/inspect the buildings in systematic way. The list has been made in two parts. The Part-I gives the main building items and points to be observed just after the completion of the buildings and before taking over. In case there are any defects observed in the first taking-over inspection, the action for rectification is to be incorporated and a second inspection is to be made before actually taking over building. The Part-II gives the items and points that should be examined/inspected after about 3-4 months and specially during the monsoon period keeping the time well before the expiry of the maintenance guarantee period. This will provide the performance of the water supply and sanitary installation in use and also the leakage and dampness in the building, which may not be possible to be examined fully at the first stage of taking-over. For each building these check-list proforma will be filled in, separately, at the time of inspection.

These proforma will also give useful information about the performance of various specifications and construction techniques in use, at the initial stage, in different parts of the country, so that a judicious selection for proper type in the region can be achieved.

CHECK-LIST FOR INSPECTION OF NEW BUILDINGS

Name & number of the building.....

Date of completion of the building..... Date of inspection.....

Date of taking over the building..... Date of handing over.....

From the builder/contractor..... to user.....

Item of Inspection	Type of Details		Follow up Action	Remarks		
	Location	Nature				
PART – I						
(Inspection to be carried out before taking over newly constructed building)						
A - Inside Building						
1. Walls						
(i) Are Walls to plumb ? (If no, indicate the location, nature and action to be taken)		Yes/No				
(ii) Are Walls in proper alignment? (If no, indicate the location, nature and action to be taken)		Yes/No				
(iii) Are there any cracks in Walls? (If yes, indicate the location, nature i.e. vertical/horizontal/ inclined and action to be taken)		Yes/No				
(iv) Are there any signs of dampness/leakage on Walls? (If yes, indicate the location, magnitude and action to be taken)		Yes/No				
(v) Are all Walls examined ?		Yes/No				
2. Floors						
(i) Are there any cracks in floor		Yes/No				

Item of Inspection	Type of Details		Follow up Action	Remarks
	Location	Nature		
?				
(If yes, indicate location and action to be taken)				
(ii) Is there any settlement in floor ? (If yes, indicate location and action to be taken)	Yes/No			
(iii) Is the floor laid to proper slope ? (If no, indicate location and action to be taken)	Yes/No			
(iv) Is the floor properly finished/polished ? (If no, indicate location, nature and action to be taken)	Yes/No			
(v) Are there any cracks in skirting/dado ? (If yes, indicate location, nature and action to be taken)	Yes/No			
(vi) Are all floors / dado examined?	Yes/No			
3. Roofs.				
(a) Flat Roofs				
(i) Are there any cracks in bottom/top? (If yes, indicate location, nature and action to be taken)	Yes/No			
(ii) Are there any leaks in roof? (If yes, indicate location, nature and action to be taken)	Yes/No			
(iii) Has the water-proofing, treatment been laid properly and to slope ? (If no, indicate location, nature and action to be taken)	Yes/No			
(iv) Are rain water pipes properly fitted and free of choking ?	Yes/No			

Item of Inspection	Type of Details		Follow up Action	Remarks
	Location	Nature		
(If no, indicate location, nature and action to be taken)		Yes/No		
(b) Sloping roofs				
(i) Is the roof laid to proper pitch/slope ?		Yes/No		
(ii) Are there any breakages in tiles/sheet ?		Yes/No		
(iii) Is the gutter laid to slope with proper joints? (If no, indicate location, nature and action to be taken)		Yes/No		
(iv) Has proper preservative treatment been given to the steel/timber truss ? (If no, indicate action to be taken)		Yes/No		
(v) Is there any sagging/cracking in ceiling ? (If yes, indicate location, nature and action to be taken)		Yes/No		
(vi) Is there sign of dampness in ceiling ? (If yes, indicate location, nature and action to be taken)		Yes/No		
(vii) Are all roofs and ceilings examined ?		Yes/No		
4. Doors, Windows and Ventilators				
(i) Are all doors, windows and ventilators opening and closing smoothly ? (If no, indicate location, nature and action to be taken)		Yes/No		
(ii) Are all doors windows and ventilators properly painted/polished ?		Yes/No		

Item of Inspection	Type of Details		Follow up Action	Remarks
	Location	Nature		
(If no, indicate location, and number to be done)				
(iii) Are all fittings viz. locking arrangement, tower bolts, door stoppers, hooks and hinges etc. working smoothly ? (If no, indicate location, number to be set right)	Yes/No			
(iv) Are all glass panes properly fitted cleaned & crack-free ? (If no, indicate location, number to be attended)	Yes/No			
5. Finishing				
(i) Are all rooms properly white washed, colour washed or distempered. (If no, indicate location, number to be attended)	Yes/No			
6. Fixtures				
(a) Cupboards/shelves				
(i) Are doors of cup boards opening and closing smoothly? (If no, indicate location and number to be set right)	Yes/No			
(ii) Are all fittings viz. hinges, locking arrangement, tower bolts etc. working smoothly?	Yes/No			
(iii) Are all cup-boards/shelves examined ?	Yes/No			
(b) Chimney				
(i) Is the hood and slope provided to, have proper function ?	Yes/No			

Item of Inspection	Type of Details		Follow up Action	Remarks
	Location	Nature		
(If no, indicate action to set right)				
7. Water Supply and Sanitation				
(i) Are pipes properly fixed to wall at required spacing and are not loose ? (If no, indicate location and number to be set right)		Yes/No		
(ii) Are there any leakages in the pipe joints ? (If yes, indicate location, number and action to be taken)		Yes/No		
(iii) Are all taps, valves, showers, wash basins, sinks working properly and there are no chocking / leakage ?		Yes/No		
(iv) Are flushing cisterns correctly fitted and work properly ? (If no, indicate location number and action to set right)		Yes/No		
(v) Are water seals in water closets and floor taps properly working ? (If no, indicate location, number and action to be taken)		Yes/No		
(vi) Are W.C. Pans, wash basins and sinks free of crack/breakage ? (If no indicate location & number to be replaced)		Yes/No		
8. Electrical Fittings				
(i) Are the following working properly ?				
(a) Switches		Yes/No		

Item of Inspection	Type of Details		Follow up Action	Remarks
	Location	Nature		
(b) Plug points		Yes/No		
(c) Fans		Yes/No		
(d) Regulators		Yes/No		
(e) Meter (If no, indicate location & number to be set right)		Yes/No		
(ii) Are all the fuses wired properly ? (If no, indicate location and number to be set right)		Yes/No		
(iii) Is the earth-wire connected properly ? (If no, indicate action to be taken)		Yes/No		
B- Outside Building				
(i) Is the surrounding free of debris cleaned and Levelled. (If no, indicate action to be taken)		Yes/No		
(ii) Is the compound wall and gate provided ?		Yes/No		
(iii) Is the approach road properly laid ? (If no, indicate action to be taken)		Yes/No		
(iv) Are the outside drains provided & clear ?		Yes/No		
(v) Are the steps & staircase provided & to proper slope ?		Yes/No		
(vi) Is the outside building finishing complete ?		Yes/No		

HANDED OVER

.....

**Signature of the
Builder/Contractor.**

TAKEN OVER

.....

Signature of the
Engineering Subordinate, PWD

.....Section

.....Sub Dn.
.....Division

COUNTER SIGNED

()

Signature of the Asstt. Engineer

.....Sub. Dn

.....Division

Copy submitted to the following for record and reference :-

1. The Executive Engineer, PWD
2. The Asstt. Engineer, PWD

()

Engg. Subordinate

Part - II

(Inspection to be carried out during/after monsoon and well before expiry of maintenance-guarantee period)

1. Building :

Are there any leakages/dampness in the following?

- | | | |
|-------|--|--------|
| (i) | Walls | Yes/No |
| (ii) | Floors | Yes/No |
| (iii) | Roofs | Yes/No |
| (iv) | Ceiling | Yes/No |
| (v) | Parapet | Yes/No |
| (vi) | Sunshades
(If yes, indicate location,
nature number
& action) | Yes/No |

2. Service:

Are there any leakage in the following ?

- | | | |
|------|-----------------|--------|
| (i) | Rain Water Pipe | Yes/No |
| (ii) | Sewer Pipe | Yes/No |

- (iii) Water Pipe. Yes/No
- B. Is the whole system Yes/No working leak proof ?
- C. Are the following working satisfactorily ?
- (i) Septic Tank Yes/No
 - (ii) Soak Pit Yes/No
 - (iii) Outside drain Yes/No

**Assistant Engineer, PWD,
Sub Dn.....**

Copy forwarded to the Executive Engineer, PWDfor reference and necessary action.

Copy forwarded to the Engg. Subordinate, PWD for early action.

**Assistant Engineer : PWD
Sub Dn.....**

OFFICE OF THE CHIEF ENGINEER (B & R), PWD, RAJASTHAN, JAIPUR**STANDING ORDER No. 138****PURCHASE OF BUILDINGS**

This department is charged with the duty of expressing opinion in connection with the purchase of the buildings with a view to deal with such cases in a uniform and a correct way be followed :-

- (i) No building may be purchased for public purpose without the order of the Government.
- (ii) The valuation of building sites and of buildings should be made in accordance with the following procedure :-

Valuation of Buildings :

The buildings may be divided in four categories :

1. Permanent (with life 80 to 100 years).
2. Permanent (with inferior specification 60 to 80 years)
3. Semi-permanent (with life 50 to 60 years)
4. Temporary (with life 10 years of less)

The cost of building should first be worked out on the present day rates by preparation of detailed sample estimates for representative portion of the building and then calculating the building or portion thereof with similar characters, the estimates will be exclusive of services viz. electric, water and sanitary fittings and cost of land.

After valuating the present day cost of the building the depreciated cost should be calculated with the formula :-

$$D = P \left\{ 1 - \frac{rd}{100} \right\}^n$$

Where D is the depreciated value.

P is the cost of present market rate.

rd is the fixed percentage of depreciation.

n is number of years of the building has been constructed.

The following may be assumed as life span of the various type of buildings :

- (1) Buildings built of stone in lime masonry walls or bricks in lime masonry. Stone slabs or RCC roof cement concrete of flag stone flooring and teak wood joinery work. Life 80 to 100 years,

- (2) Building of slightly inferior specification such to as stone partly in lime mortar partly in mud or bricks in lime, masonry plastered walls, stone slabs roofing or terraced roofing on flag stone with ordinary cement or lime terrace and rough flag stone flooring and second class teak wood or other good quality timber joinery. Life 60 to 80 years,

- (3) Building of semi permanent nature such as built partly of brick in lime mortar and partly built in mud mortar, wooden or A.C. or C.G.I sheet roofing, country wood joinery. Life 50 to 60 years

- (4) Temporary building such as buildings in mud mortar, inferior specifications or structure with thatches. Life 10 year or less

The Executive Engineer should exercise his judgment carefully to decide as to which category the building in question belongs and to estimate the actual life with in the category. The rate of depreciation may be taken as –

100/life span of each category.

The amount of depreciation shall in no case be less than 10% of the present cost of the buildings, irrespective of the age.

The valuation arrived at will be exclusive of the cost of land water supply, electric and sanitary and other permanent fitting etc. and will apply to those buildings only which have been properly maintained.

If the repairs have been neglected in the past and the present conditions is bad or dilapidated suitable deductions should be made from the value as deducted above, for the neglected repairs not for ordinary repairs).

The present value of land and water supply, sanitary and electric fittings etc. should be added to the valuation of the buildings so arrived at the total valuation of the property the present value of land will be determined in consultation with the local revenue authorities.

A lump-sum amount may further be deducted representing such damages as may exist but which do not effect the life of the building.

If necessary, a further lump-sum representing the value of such features which exist and which have been included in the plinth area valuation but which represent no value to the Govt. (i.e. exceptionally thick wall unnecessary decoration and the like) may be deducted.

In case of sub-standard work, suitable reduction to account for inferior specification may be made by the Executive Engineer.

Valuation on plinth area basis :

Cases may also exist where it is not possible to estimate correctly the quality of different class of work under the above noted sub-heads for want of estimate of the works and its drawing according to which the work has actually executed. In such case, it would be possible to work out the valuation on the basis of plinth area rate of buildings. In doing so, the plinth area of a building should be ascertained & the present day cost construction of building of similar size & specification estimated at plinth area, rates, from the figure so arrived at the deduction due to depreciation, related repairs & other items, may be made.

VALUATION ON MONTHLY RENTAL OR MARKET VALUE BASIS

It sometimes happens that valuation worked out on either of the above two methods is apparently neither that of market value nor of the buildings in the locality. In such cases therefore the valuation has to be assessed depending on.

- (i) Present monthly rent of the buildings.
- (ii) If buildings is not rented one, then on its face market value that can be ascertained.

The valuation on the basis of rent would be 200 items the rent per month of the building exclusive of houses tax, if any.

For the second alternative of market of face value no hard and fast rules can be laid down as it will depend on the locality in which the building has been constructed, the purpose for which it was built and the purpose for which it could be utilized in the locality.

The market value may be defined as the price which will be received by a willing seller from the willing buyer in the open market for the particular property in its present condition with its particular advantage and its particular draw backs. It is not the same as the cost; nor marketed value be compared with the cost of rent statement. It can not be determined by the extreme prices in a rising or falling market in all cases, the volume of transactions and the general trend of price should be considered.

Before any building is purchased, the total present and future liabilities to Govt. should be determined and the probable cost in the following items be clearly shown :

- (1) Any necessary dismantling of existing structure, and cleaning of site.
- (2) The special repairs of additional new work required to make the building suitable for its future use and.
- (3) Future annual maintenance.

The cost of (1) and (2) added to the proposed purchase price of the building, gives the total cost of acquisition while (3) given the recurring liability.

Sale Deed

When the approval of the Govt. to the proposed purchase has been accorded the Executive Engineer, will prepare a site plan in triplicate and draft sale deed in proper form in consultation with the Collector and send it through the Superintending Engineer to the Chief Engineer. The Chief Engineer, will forward it to the Administrative Department in the Secretariat to have it approved from the legal remembrance, after this, the draft Sale Deed with plan will be returned, the signature of the vendor on the deed and on one copy of the site plan obtained and have the deed registered after signing it on behalf of the Govt.

The Collector will have registered title deed with the site plan recorded in safe custody with the Treasury Officer, inform the Executive Engineer accordingly and send him a copy of the deed and plan. The third copy of the deed and plan will be sent by the Collectorate to the Administrative Department concerned in the secretariat.

The Executive Engineer will maintain the register of such purchase of building in division in the form vide Appendix 'A'.

Sd/-

**CHIEF ENGINEER, PWD,
Rajasthan, Jaipur.**

No.F.9(10)8605/S/60

Dated : 17.2.1960

APPENDIX 'A'

Register showing purchase of Building, Land etc.

S. No.	Particular of deed with amount	Date on which the deed was registered	Name of treasury where the deed is recorded	No. & date of Collector's letter intimating the recording of the deed with Treasury	Remarks
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STANDING ORDER No. 144

**ASSESSMENT OF FAIR RENT OF BUILDINGS TAKEN ON RENT
BY VARIOUS DEPARTMETNS**

It has been brought to the notice of the undersigned that the officers of the Department while issuing FRC in respect of Building do not assess the reasonable area of the built up space taken on Rent in accordance with the criteria laid down in the Govt. orders No.D.6274/F.(15)GA/A/59 dated 18.05.59 (Copy enclosed for ready reference).

It may, therefore please be ensured before issuing such certificate in future that the space being taken on rent by various Deptt. Is not in excess of space prescribed by the Govt. D.2674/F.5(15) FA/A/59 dt. Jaipur 18.05.1959.

In order to ensure uniformity in the construction of new Govt. Building for office purpose and for addition and alteration to the present Building and for taking private Building for office purpose, the Governor is pleased to lay down the following scale for the same :

160 Sq.ft.	Each for Gazetteer officers.
50 Sq. ft.	Each for Technical Staff (such as Draftsmen & Estimators).
40 Sq. ft	Each for ministerial staff, Staff, Supdt. Head Clerk etc.

In addition 10% of accommodation allowed for ministerial staff will be admissible for records.

GOVERNMENT OF RAJASTHAN**PUBLIC WORKS DEPARTMENT****STANDING ORDER No. X-3/73/77/79/81**

1. For determining the present day value of the buildings with a view to assess the Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings, rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD (B & R), Rajasthan.
2. This order supercedes, the Standing Order No. 151 & 160 issued earlier. The market value of building for the purpose of sale or purchase of the property shall be determined as per instructions contained in Standing Order No. 138.
3. As the rates of construction on plinth area basis differ from circle to circle the plinth area rates per sqm. given below are for Jaipur, Bikaner, Sri Ganganagar, Kota and Udaipur circles. For Ajmer & Jodhpur these may be reduced by 10% and 20% respectively in X3/73 and 5% & 15% respectively in X3 1977/79/81.

Building Portion description		Plinth area rate in Rs.			
		5/9/1973	1/1/1977	1/6/1979	1/2/1981
a.	Basement floor upto 2.5 m. height.	Sqm.	170	250	325
b.	Ground floor over basement	Sqm.	180	280	350
c.	Ground floor without basement	Sqm.	240	360	450
d.	First floor	Sqm.	205	300	375
e.	Second floor	Sqm.	220	320	400
f.	Add for third & fourth floor (for each floor)	Sqm.	15	20	25
g.	Mezzanine floor	Sqm.	70	100	125
h.	Compound wall one meter high above ground level including ordinary gates	Rmt.	30	45	60
i.	CGI/AC sheet shed closed on 3 sides with pucca floor	Sqm.	170	250	310
j.	Pucca Out Houses garages with shutters	Sqm.	205	300	375
k.	Plat-form	Sqm.	35	45	60
					75

4	Electrical installation without ceiling fans.(percentage over item 3 (a) to 3(j)]	5%	5%	5%	5%
(a)	Add extra for conduit wring	1%	2%	2%	2%
(b)	Cost of ceiling fans to be added extra as per number of fans.				
5	Sanitary percentage over item 3(a) to 3 (f)	9%	10%	10%	10%
6	Water supply percentage over item 3 (a) to 3 (f)	3%	4%	4%	4%
7	Roads				
8	The above rates apply to the building having :				
(i)	A ceiling height of 3.50 m.				
(ii)	Ordinary Cement Floor.				
(iii)	Wall Plastered on both sides or pointed externally.				
(iv)	Walls and pillar masonry in lime or cement.				
(v)	First/Second class teak-wood or solid core/flush door and window shutters with ordinary iron fittings.				
(vi)	Ordinary electric wiring with light & ordinary power circuits and with moderate fittings as per norms fixed by PWD for type design.				
(vii)	Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc in each bath room as per norms fixed by PWD for type design.				
(viii)	Stone slab roofing without Beams/joists i.e. upto 3 meters.				

NOTE : For superior fittings such as bath tubs, water heaters, water tank etc. as per actuals.

9	For other specifications the following percentage shall be added/reduced to item 3(a) to 3(f) stated above :				
a.	Increase/Decrease in height above or below 3.5 meters by 30cms.	2.50%	2.50%	1.50%	1.50%
b.	Add for mosaic flooring with gray cement / unpolished rough dressed stone flooring.	5%	5%	5%	5%
c.	Add for mosaic flooring with white cement	7.50%	7.50%	7.50%	7.50%
d.	Add for polished stone flooring.	10%	10%	10%	10%
e.	Add for high class finish with rich specification	5%	8%	8%	8%
f.	Less for lime floor instead of cement floor	1.50%	x	x	X
g.	Add extra for first class select grade teak wood frame with teak facing ply flush door polished.	X	5%	5%	5%
h.	Add for wire gauge doors & windows.	3%	3%	3%	3%
i.	Less for poor finish.	5%	5%	5%	5%
j.	Add for RCC roof with lime terracing for spans upto 3 m	5%	X	X	X
k.	Add for RCC roof with lime terracing/ stone slab roofing with RSJ or beams (actual percentage to be determined by working out a sample estimate).	8% to 15%	8% to 15%	8% to 15%	8% to 15%

1. Add for item e.g. hot & cold water system expensive fixtures and fittings, glazed tiles and facilities to over and above those specified about as per actual estimate. ✓ ✓ ✓ ✓
- m. Add also for lawns hedges etc. maintained. X ✓ ✓ ✓
10. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
11. After valuation of the present day cost of the building as thought it is new, the depreciated cost should be calculated by the formula given below :
- $$D = P \left[1 - \frac{rd}{100} \right]^n$$
- Where
 D = Depreciated Value
 rd = The fixed percentage of depreciation
 P = The cost at the present market rate.
 n = The number of years the building had been constructed.
12. The following may be assumed as the life span of the various type of buildings :
- a. Building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 years
 - b. Building of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joists or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as building in mud mortar and inferior specifications or structures with country tiles roof and thatch roof etc. Life 10 years or less

13. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the minimum, life span according to the type of construction.
- (ii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
- (iii) If the exact age of the building can not be ascertained, the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed at 50 years.
14. The rate to depreciation be taken as (100/life span) for each category.
15. The cost of land should be worked out on the basis of rate obtained from or prescribed by UIT, Municipality, or any other authority having jurisdiction on the administration of land in that area (In case UIT, Municipality is unable to give current land rate, the same may be obtained from land and building taxation department). Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.
16. For buildings more than one storey :
 - a. The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b. The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c. The area under commercial use shall be given double weight-age of the area under residential use.
17. The rent calculated is exclusive of taxes.
18. This order shall take immediate effect.

Sd/-

**CHIEF ENGINEER,
PWD, RAJASTHAN,
JAIPUR.**

No. P.9(15)(A/Cell-VI)/73/6512 Dated: 5-9-73

D-4512	12-1-77
D-2453	6-6-79
D-296	2-1-81

Note: 9 (i) Deleted in S.O.x/3-1977 & in subsequent orders.
 9 (f 1) Deleted in S.O. x/3-1977 & in subsequent orders.
 9 (f2) Added in S.O. x/3-1977 & in subsequent orders.
 9 (k 1) Added in S.O. x/3-1977 & in subsequent orders.
 13 (i) & (ii) Added in S.O. x/3-1979 & in subsequent orders.
 15 with in ()-do- x-3-1981.
 16 (c) Added in S.O. -do- x3/-1979.

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1984

1. For determining the present day value of the buildings with a view to assess the fair rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD (B & R), Rajasthan.
2. This order supersedes, the Standing Order No. 151,X-3/1977/ X-3/1979 & X-3/1981 issued earlier. The market value of building for the purpose of the sale or purchase of the property shall be determined as per instructions contained in Standing Order No. 138.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	525.00 per Sq.M.
b. Ground floor over basement	565.00 per Sq.M.
c. Ground floor without basement	725.00 per Sq.M.
d. First floor	600.00 per Sq.M.
e. Second floor	650.00 per Sq.M.
f. Add for third & fourth floor	40.00 (for each floor)
g. Mezzanine floor	200.00 per Sq.M.
h. Compound wall one meter high above ground level including ordinary gates	95.00 per Sq.M.
i. CGI/AC sheet closed on 3 sides with pucca floor	500.00 per Sq.M.
j. Pucca Out Houses and garage with shutters	600.00 per Sq.M.
k. Platform	100.00 per Sq.M.
l. For Antitermite treatment	15.00 per Sq.M.
m. For mastic asphalt water proofing treatment of foundations (on ground floor area only)	110.00 per Sq.M.

4.	Electrical installation without cleaning fans. [percentage over item 3 (a) to (j)]	
(a)	Add extra for conduit wiring.	5%
(b)	Cost of ceiling fans to be added extra as per number of fans.	2%
5.	Sanitary percentage over item 3(a) to 3(j) excepting item 3 (h)	10%
6.	Water supply percentage over item 3(a) to 3(j) excepting item 3(h).	4%

Note: For superior fittings such as bath tubs, water heaters, water tank etc. as per actuals at current BSR.

7.	Roads	At Current B.S.R.
8.	The above rates apply to the building having:	
(i)	A ceiling height of 3.50.	
(ii)	Ordinary Cement Floor.	
(iii)	Wall Plastered on both sides or pointed externally.	
(iv)	Walls and pillar masonry in lime or cement.	
(v)	First / Second class teak-wood or solid core / flush door and window shutters with ordinary iron fittings.	
(vi)	Ordinary electric wiring with light & ordinary power circuits and with moderate fittings as per norms fixed by P.W.D. for type design.	
(vii)	Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design.	
(viii)	Stone slab roofing without Beams/joists i.e. upto 3 meters.	

For RCC framed structures the following rates shall be applicable in place of rates of at (3 meters ht.) 3(a) to 3(f)

(a)	Basement floor (3 meters ht.)	Rs. 1350/- per sqm.
(b)	Ground floor (3 meter ht.) over basement	

Rs. 1000/- per sqm.

- (c) Ground floor in buildings with out basement (3 meter ht.) Rs. 1050/- per sqm.
- (d) First floor (3 meter ht.) Rs. 1050/- per sqm.
- (e) Add extra for Second & every subsequent floor (3 meter ht.) over rate of item 9 (d). Rs. 50/- per sqm.
10. For other specifications the following percentage shall be added/reduced to item 3(a) to 3(j) stated above :
- a. Increase/Decrease in height above or below 3.5 meters by 30 cms. 1.5%
 - b. Add for mosaic flooring with gray cement/unpolished rough dressed stone flooring. 5%
 - c. Add for mosaic flooring with white cement. 7.5%
 - d. Add for the polished stone flooring. 10%
 - e. Add for high-class finish with rich specification. 8%
 - f. Add extra for first class selected grade teak wood frame with teak facing ply flush door polished. 5%
 - g. Add for wire gauge doors & windows. 3%
 - h. Less for poor finish. 5%
 - i. Add for RCC roof with lime terracing/stone slab roofing with RSJ or beams (actual percentage to be determined by working out a sample estimate in case of load bearing structures only) 8% to 15%.
 - j. Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles built earbobs & other built in in furniture, marble slabs and any other item or facilities not covered in the items specified above as per actual estimate.
 - k. Add also for lawns etc. maintained as per actual estimate.
11. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.

12. After valuation of the present day cost of the building as though it is new, the depreciated cost should be calculated by the formula given below :

$$D = P (1 - rd/100)n$$

Where -

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

13. The following may be assumed as the life span of various type of building :-

- a. Building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 years
 - b. Building of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly or brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roofs and thatch etc. Life 10 years or less
14. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the minimum, life span according in the type of construction.
- (ii) The Executive Engineers should exercise their judgment carefully to be decide as to which category the building in question belongs and to estimate the actual life within the category.
- (iii) If the exact age of the building can not be ascertained by, the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
15. The rate to depreciation be taken as (100/life span) for each category.
16. The cost of land should be worked out on the basis of rate obtained from or prescribed by UIT, Municipality, or any other authority having jurisdiction on the administration of land in that area. Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.

"In case UIT/Municipality is unable to give current land rate, the same may be obtained from land and building taxation department)"

17. For buildings more than one storey :
 - a. The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b. The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c. The area under commercial use shall be given double weight-age of the area under residential use.
18. The rent calculated is exclusive of taxes, is to be borne by the owner.
19. This order shall come in to force with immediate effect.

Sd/-

(M.M. SWAROOP)
CHIEF ENGINEER, PWD
RAJASTHAN, JAIPUR

Dated : 23rd July, 1984.

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1987

1. For determining the present day value of the buildings with a view to assess the fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD (B & R), Rajasthan.
2. This order supersedes, the Standing Order No. 151, 160, X-3/1973/ X-3/1979 & X-3/1981, X-3/1984 & X-3/1987 issued earlier. The market value of building for the purpose of the sale or purchase property shall be determined as per instructions contained in Standing Order No. 138.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	600.00 per Sqm.
b. Ground floor over basement	650.00per Sqm.
c. Ground floor without basement	850.00 per SqM.
d. First floor	710.00 per Sqm.
e. Second floor	770.00 per Sqm.
f. Add for third & fourth floor	45.00 per sqm. (for each floor)
g. Mezzanine floor	220.00 per Sqm.
h. Compound wall one meter high above ground level including ordinary gates	125.00 per Sqm.
i. CGI/AC sheet closed on 3 sides with pucca floor	550.00 per Sqm.
j. Pucca Out Houses and garage with shutters	650.00 per Sqm.
k. Platform	120.00 per Sqm.
l. For antitermite treatment	15/- per Sqm.
m. For mastic asphalt water proofing treatment of	

	foundation s (on ground floor area only)	110/- per Sqm.
4.	Electric installation without ceiling fans.	
		%age over item No. 3 (a) to 3(j) for wall bearing structures
	(a) Add extra for conduit wiring	5%
	(b) Cost of ceiling fans to be added extra as per number of fans.	2%
5.	Sanitary Fittings	10%
6.	Water Supply	4%
		%age over item no. 9(a) to (9e) for RCC framed structures.
		3%
7.	Roads	
8.	The above apply to the building having :	

- (i) A ceiling height of 3.50 m. (wall bearing structures) 3.00m. framed structures.
- (ii) Wall Plastered on both sides or pointed externally.
- (iii) Ordinary Cement Floor.
- (iv) Walls and pillar masonry in lime or cement.
- (v) Second class teak-wood or solid core/flush door and window shutters with ordinary iron fittings and with ordinary paint.
- (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
- (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank soak pit and sewer line within campus.
- (viii) Stone slab roofing without Beams/joists i.e. upto 3 metres for wall bearing structures.

9. For RCC farmed structure the following rates shall be applicable in place of rates at 3(a) to 3(f)

- a Basement floor (3 mtr. ceiling height) 1500/- per sqm.
- b Ground floor (3 mtr. height) over basement. 1100/- per sqm.

- c. Ground floor in buildings without basement (3 mtr. height) 1150/- per sqm.
- d. First floor (3 mtr. height) 1100/- per sqm.
- e. Add extra for second & every subsequent floors (3 mtr. ht.) 55/- per sqm. over rate of item 4 (d)
10. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(b) to 4(e) stated above :

Details of Specifications	%age over item No. 3(a) to (j) & 4(b), 4(d) & 4(e)	%age over item No. 4(a) & 4(c) for RCC framed structure
a. Increase/Decrease by every 30cms. in height above or below.	1.5%	1%
b. Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c. Add for mosaic flooring with white cement flooring	7.5%	5%
d. Add for fine polished stone flooring.	10%	6%
e. Add for high-class finish with rich specifications and good condition off maintenance	8%	4.75%
f. Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	5%	3%
g. Add for wire gauge doors & windows.	3%	1.75%
h. Less for poor finish.	7 to 10%	7 to 10%
i. Add for RCC roof with lime terracing, stone slab roofing with RSJ or Beams (actual percentage to be determined by working out a bearing structures only).	8 to 15%	
j. Add for items e.g. hot & cold		

water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above as per actual estimate.

- k. Add also for lawns etc.
maintained as per actual.

11. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.

12. After valuation of the present day cost of the building as though it is new, the depreciated cost should be calculated by the formula given below :

$$D = P \left(1 - \frac{Rd}{100}\right) n$$

Where -

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

13. The following may be assumed as the life span of the various type of buildings :

 - a. RCC framed buildings, buildings built of stone in lime masonry wall bricks in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery Life 80 to 100 years
 - b. Building of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roofs and thatch etc. Life 10 years or less

14. (i) If the age of the building is known or can be ascertained through local

enquiry etc. the actual age of the building shall be taken subject to the maximum, life span according to the type of construction.

- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
 - (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
15. The rate of depreciation be taken as:- (100/life span) for each category.
16. The cost of land should be worked out on the basis of rate obtained from or prescribed by UIT, Municipality, or any other authority having jurisdiction on the administration of land in that area. Land in excess of 4 times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.
- "In case UIT/Municipality is unable to give current land rate, the same may be obtained from Land and Building Taxation Department or the Valuation Cell in the Income Tax Department."
17. For buildings more than one storey the distribution of cost of land shall be made as under :
- a. The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b. The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c. The area under commercial use shall be given double weight-age of the area under residential use.
18. Any taxes such as House tax, Land & Building taxes etc. is to be borne by the owner.
19. This order shall come in to force with immediate effect.

Sd/-

**(M.C. SHARMA)
CHIEF ENGINEER, PWD
RAJASTHAN, JAIPUR**

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1990

1. For determining the present day value of the buildings with a view to assess the fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD (B & R), Rajasthan.
2. This order supersedes, the Standing Order No. 151, 160, X-3/1973/ X-3/1979 & X-3/1981, X-3/1984 & X-3/1987 issued earlier. The market value of building for the purpose of the sale or purchase property shall be determined as per instructions contained in Standing Order No. 138.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	850.00 per Sqm.
b. Ground floor over basement	950.00 per Sqm.
c. Ground floor without basement	1150.00 per SqM.
d. First floor	1000.00 per Sqm.
e. Second floor	1050.00 per Sqm.
f. Add for third & fourth floor	15.00 per sqm. (for each floor)
g. Mezzanine floor	250.00 per Sqm.
h. Compound wall one meter high above ground level including ordinary gates	200.00 per Sqm.
i. CGI/AC sheet closed on 3 sides with pucca floor	650.00 per Sqm.
j. Pucca Out Houses and garage with shutters	800.00 per Sqm.
k. Platform	150.00 per Sqm.
4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f) :	
a. Basement floor (3 mtr. ceiling height)	2000/- per sqm.

- | | | |
|----|---|-----------------|
| b | Ground floor (3 mtr. height) over basement. | 1500/- per sqm. |
| c. | Ground floor in buildings without basement (3 mtr. height) | 2100/- per sqm. |
| d | First floor (3 mtr. height) | 1550/- per sqm. |
| e | Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d) | 75/- per sqm. |

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(b) to 4(e) stated above :

		%age over item No. 3(a) to (j) & 4(b), 4(d) & 4(e)	%age over item No. 4(a) & 4(c) for RCC framed structure
a	Increase/Decrease by every 30cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement flooring	7.5%	5%
d.	Add for fine polished stone flooring.	(As per difference in rates in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	8%	5%
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	5%	3% (on item No.4-c only)
g.	Add for wire gauge doors & windows.	3%	2% (on item No.4-c only)
h.	Less for poor finish.	7 to 10%	7 to 10%
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above		

as per actual estimate.

j.	Add also for lawns etc. maintained as per actual.		
k.	Electrical installation without cleaning fans.	5%	3.5%
a.	Add extra for conduit wiring.	2%	1.5%
b.	Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary Fittings (except item 3h)	10%	7% (item No. 4-c only)
m.	Water supply (except item 3h)	4%	3% (item No.4-c only)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual at current BSR.

6. Roads At Current B.S.R.

7. The above rates apply to the building having :

- (i) A ceiling height of 3.20 m. (wall bearing structures)/ 3.00 m. framed structures.
- (ii) Wall Plastered on both sides or pointed externally.
- (iii) Ordinary Cement Floor.
- (iv) Walls and pillar masonry in lime or cement.
- (v) Second class teak-wood or solid core/flush door and window shutters with ordinary iron fittings and with ordinary paint.
- (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
- (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank soak pit and sewer line within campus.
- (viii) Stone slab roofing/R.C.C. slab roofing with Beams or joists.

8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.

9. After valuation of the present day cost of the building as though it is new, the depreciated cost should be calculated by the formula given below :

$$D = P \left(1 - \frac{Rd}{100}\right)^n$$

Where -

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

10. The following may be assumed as the life span of the various type of buildings :
 - a. RCC framed buildings, buildings built of stone in lime masonry wall bricks in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery Life 80 to 100 years
 - b. Building of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roofs and thatch etc. Life 10 years or less
11. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the maximum, life span according to the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
- (iii) The Executive Engineers should exercise their judgment carefully to be decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate of depreciation be taken as:- (100/life span) for each category.
13. The cost of land should be worked out on the basis of rate obtained from or prescribed by UIT, Municipality, or any other authority having jurisdiction on the administration of land in that area. Land in excess of 4 times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.

"In case UIT/Municipality is unable to give current land rate, the same may be obtained from Land and Building Taxation Department or the Valuation Cell in the Income Tax Department."

14. For buildings more than one storey the distribution of cost of land shall be made as under :
 - a. The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b. The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c. The area under commercial use shall be given double weight-age of the area under residential use.
15. Any taxes such as House tax, Land & Building taxes etc. is to be borne by the owner.
16. This order shall come in to force with immediate effect.

Sd/-

**(M.C. SHARMA)
CHIEF ENGINEER, PWD
RAJASTHAN, JAIPUR**

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1993

1. For determining the present day value of the buildings with a view to assess the fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.

2. This order supersedes, the Standing Order No. 151, 160, X-3/1973/ X-3/1979 & X-3/1981, X-3/1984, X-3/1987 & X-3/1990 issued earlier. The market value of building for the purpose of the sale or purchase property shall be determined as per instructions contained in Standing Order No. 138.

3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	1200.00 per Sqm.
b. Ground floor over basement	1350.00per Sqm.
c. Ground floor without basement	1600.00 per SqM.
d. First floor	1400.00 per Sqm.
e. Second floor	1450.00 per Sqm.
f. Add for third & fourth floor	100.00 each floor
g. Mezzanine floor	350.00 per Sqm.
h. Compound wall one meter high above ground level including ordinary gates	300.00 per Sqm.
i. CGI/AC sheet closed on 3 sides with pucca floor	900.00 per Sqm.
j. Pucca Out Houses and garage with shutters	1100.00 per Sqm.
k. Platform	200.00 per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f) :

a	Basement floor (3 mtr. ceiling height)	2800/- per sqm.
b	Ground floor (3 mtr. height) over basement.	2100/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	2950/- per sqm.
d	First floor (3 mtr. height)	2150/- per sqm.
e	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	100/- per sqm

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above :

	Details of Specifications	Item 3(a) to 3(j) and No. 4 (b), 4(e) & 4(d)	Item No. 4 (a) and 4(c)
a	Increase/Decrease by every 30 cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement	7.5%	5%
d.	Add for fine polished stone flooring/marble flooring	(As per difference in rates in prevailing B.S.R.)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	upto 10% (Analysis to be worked out)	
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%

h.	Less for poor finish.	5 to 10% (Analysis to be worked out)
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above as per actual estimate.	(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 25/- per Sqm.
k.	Electrical installation without ceiling fans.	5% 3.5%
(a)	Add extra for conduit wiring	2% 1.5%
(b)	Cost of ceiling fans to be added extra as per number of fans	
l.	Sanitary Fittings (except item 3(h) & 3(k))	10% 7%
m.	Water supply (except item 3(h) & 3(k))	4% 3%
n.	External cladding	(As per actual)
o.	Fire fighting system.	(As per actual)

Note :- For superior fittings such as bath tubs, water heaters etc. as per actual.

6. Roads At Current B.S.R.

7. The above rates apply to the building having :

 - (i) A ceiling height of 3.20 m. (wall bearing structures) 3.00 M framed structures.
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood or solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.

- (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines within the campus.
 - (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :
- Where -
- $$D = P (1 - rd/100)n$$
- D = Depreciated Value
- rd = The fixed percentage for depreciation.
- P = The cost at the present market rate.
- n = The number of years the building had been constructed.
10. The following may be assumed as the life span of the various type of buildings :
- a RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 years
 - b Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.
11. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the maximum life span according to the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.

- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate to depreciation be taken as : 00/life span for each category.
13. The cost of land should be worked out by a committee consisting of the concerned S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from UIT/ Municipality/Registration Deptt./any other authority having jurisdiction on the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.
14. For buildings more than one storey the distribution of cost of land shall be made as under :
- a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. Any taxes such as House tax, Land & Building taxes etc. is to be borne by the owner
16. This order shall come in force with immediate effect 1-1-1993 and will not effect the cases assessed in the past.

Sd/-

**(HARBINDER SINGH)
CHIEF ENGINEER, PWD**

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1995

1. For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.
2. This order supersedes, the Standing Order No. 151, 160, X-3/1973/ X-3/1979 & X-3/1981, X-3/1984, X-3/1987 & X-3/1990, X-3/1993 issued earlier. The market value of building for the purpose of the sale or purchase of the property shall be determined as per instructions contained in Standing Order No. 138.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	1360.00 per Sqm.
b. Ground floor over basement	1525.00per Sqm.
c. Ground floor without basement	1800.00 per SqM.
d. First floor	1600.00 per Sqm.
e. Second floor	1610.00 per Sqm.
f. Add for third & fourth floor	115.00 per sqm.
g. Mezzanine floor	400.00 per Sqm.
h. Compound wall one meter high above ground level including ordinary gates	350.00 per RMT
i. CGI/AC sheet closed on 3 sides with pucca floor	1000.00 per Sqm.
j. Pucca Out Houses and garage with shutters	1250.00 per Sqm.
k. Plat-form	230.00 per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f) :

a	Basement floor (3 mtr. ceiling height)	2800/- per sqm.
b	Ground floor (3 mtr. height) over basement.	2100/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	2950/- per sqm.
d	First floor (3 mtr. height)	2150/- per sqm.
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	100/- per sqm.

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above :

a	Increase/Decrease by every 30 cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring.	(As per difference in prevailing B.S.R.)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	upto 15%	Upto 10% (Analysis to be worked out)
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%
h.	Less for poor finish.	5 to 10%	(Analysis to be worked out)
		5 to 10%	

i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.		(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 25/- per Sqm.	Rs. 25/- per Sqm.
k.	Electrical installation without ceiling fans.	5%	3.5%
(a)	Add extra for conduit wiring	2%	1.5%
(b)	Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except item 3(h) & 3 (k)	10%	7%
m.	Water supply (except item 3(h) & 3(k)	4%	3%
n.	External cladding		(As per actual)
o.	Fire fighting system.		(As per actual)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.

- | | | |
|----|-------|-------------------|
| 6. | Roads | At Current B.S.R. |
|----|-------|-------------------|
7. The above rates apply to the building having :
- (i) A ceiling height of 3.50 m. (wall bearing structures/ 3.00 M framed structures)
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood or solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines with in the campus.

- (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :
- Where -
- $D = P (1 - rd/100)$
- D = Depreciated Value
- rd = The fixed percentage for depreciation.
- P = The cost at the present market rate.
- n = The number of years the building had been constructed.
10. The following may be assumed as the life span of the various type of buildings :
- a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery.
 - b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.
11. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the maximum life span according in the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate to depreciation be taken as : 100/Life span for each category.

13. The cost of land should be worked out by a committee consisting of the concerning S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from UIT/ Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.
14. For buildings more than one storey the distribution of cost of land shall be made as under :
 - a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. Any taxes such as House tax, Land & Building taxes etc. is to be borne by the owner
16. This order shall come in force with immediate effect from 1-1-1993 and will not effect the cases assessed in the past.

Sd/-

**(A.K. JAIN)
CHIEF ENGINEER, PWD**

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/1997

1. For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.

2. This order supersedes, the Standing Order No. 151, 160, X-3/1973/ X-3/1979 & X-3/1981, X-3/1984, X-3/1987 and X-3/1990, X-3/1993, X-3/1995 issued earlier. The market value of building for the purpose of the sale or purchase of property shall be determined as per instructions contained in Standing Order No. 138.

3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

Building Portion-description	Plinth area rate in rupees
a. Basement floor upto 2.5 m. height	1560/- per Sqm.
b. Ground floor over basement	1750/- per Sqm.
c. Ground floor without basement	2070/- per SqM.
d. First floor	1840/- per Sqm.
e. Second floor	1885/- per Sqm.
f. Add for third & fourth floor	130/- each floor
g. Mezzanine floor	460/- per Sqm.
h. Compound wall one meter high above ground level including ordinary gates	400/- Rmt.
i. CGI/AC sheet closed on 3 sides with pucca floor	1150/- per Sqm.
j. Pucca Out Houses and garage with shutters	1435/- per Sqm.
k. Plat-form	265/- per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f) :

a	Basement floor (3 mtr. ceiling height)	3220/- per sqm.
b	Ground floor (3 mtr. height) over basement.	2415/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	3390/- per sqm.
d	First floor (3 mtr. height)	2470/- per sqm.
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	115/- per sqm.

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above :

a	Increase/Decrease by every 30cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring.	(As per difference in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	Upto 15%	Upto 10% (Analysis to be worked out)
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%
h.	Less for poor finish.	5 to 10% (Analysis to be worked out)	

i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.		(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 25/- per Sqm.	Rs. 25/- per Sqm.
k.	Electrical installation without ceiling fans.	5%	3.5%
(a)	Add extra for conduit wiring	2%	1.5%
(b)	Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except item 3(h) & 3 (k))	10%	7%
m.	Water supply (except item 3(h) & 3(k))	4%	3%
n.	External cladding		(As per actual)
o.	Fire fighting system.		(As per actual)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.

6. Roads At Current B.S.R.
7. The above rates apply to the building having :
- (i) A ceiling height of 3.20 m. (wall bearing structures/ 3.00 M framed structures)
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood of solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines with in the campus.

- (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
 9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :

Where -

$$D = P (1 - rd/100)n$$

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

10. The following may be assumed as the life span of the various type of buildings :
 - a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery.
 - b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.
11. (i) If the age of the building is known or can be ascertained through local enquiry etc. the actual age of the building shall be taken subject to the maximum life span according in the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate to depreciation be taken as : 100/Life span for each category.
13. The cost of land should be worked out by a committee consisting of the concerning S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from

UIT/ Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building unless the entire land is specifically required.

14. For buildings more than one storey the distribution of cost of land shall be made as under :
 - a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. Any taxes such as House tax, Land & Building taxes etc. is to be borne by the owner
16. This order shall come in force with immediate effect from 1-4-1997 and will not effect the cases assessed in the past.

Sd/-

**(H.N. SAXENA)
CHIEF ENGINEER, PWD**

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/2006

1. For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.
2. This order supersedes, the Standing Order No. 151, 160, X-3/1973, X-3/1979, X-3/1981, X-3/1984, X-3/1987, X-3/1990, X-3/1993, X-3/1995 & X-3/1997 issued earlier. The market value of building for the purpose of the sale or purchase of property shall be determined as per instructions contained in Standing Order No. 138.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

1 For masonry Structures:-

S.NO.	Building Portion-description	Plinth area rate (in Rs.)
a.	Basement floor upto 2.5 m. height	2450/- per Sqm.
b.	Ground floor over basement	2850/- per Sqm.
c.	Ground floor without basement	3400/- per Sqm.
d.	First floor	3000/- per Sqm.
e.	Second floor	3100/- per Sqm.
f.	Add for third & fourth floor	210/- each floor
g.	Mezzanine floor	750/- per Sqm.

S.NO.	Building Portion-description	Plinth area rate (in Rs.)
h.	Compound wall one meter high above ground level including ordinary gates	650/- Rmt.
i.	CGI/AC sheet closed on 3 sides with pucca floor	1800/- per Sqm.
j.	Pucca Out Houses and garage with shutters	2350/- per Sqm.
k.	Plat-form	400/- per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f):

a	Basement floor (3 mtr. ceiling height)	3000/- per sqm.
b	Ground floor (3 mtr. height) over basement.	3300/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	4000/- per sqm.
d	First floor (3 mtr. height)	3400/- per sqm.
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	190/- per sqm.

- 5 For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above :

S. No.	Building Portion/ Description	For masonry structures	RCC framed structures
a	Increase/Decrease by every 30cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%

S.N o.	Building Portion/ Description	For masonry structures	RCC framed structures
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring.	(As per difference in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	Upto 15%	Upto 10% (Analysis to be worked out)
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%
h.	Less for poor finish.	5 to 10%	5 to 10% (Analysis to be worked out)
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.	(As per actual estimate)	(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 40/- per Sqm.	Rs. 40/- per Sqm.
k.	Electrical installation without ceiling fans.	5%	3.5%
(a)	Add extra for conduit wiring	2%	1.5%
(b)	Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except item 3(h) & 3 (k)	10%	7%

S.N o.	Building Portion/ Description	For masonry structures	RCC framed structures
m.	Water supply (except item 3(h) & 3(k))	4%	3%
n.	External cladding	(As per actual Estimate)	(As per actual)
o.	Fire fighting system.	(As per actual Estimate)	(As per actual)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.

6. Roads At Current B.S.R.

7. The above rates apply to the building having :

- (i) A ceiling height of 3.20 m. (wall bearing structures/ 3.00 M framed structures)
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood of solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines with in the campus.
 - (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
- 8 If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.

9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :

Where -

$$D = P (1 - rd/100)^n$$

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

10. The following may be assumed as the life span of the various type of buildings :

- a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery.
Life 80 to 100 Years
- b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery.
Life 60 to 80 years
- c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery.
Life 50 to 60 years
- d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc.
Life 10 years or less.

11. (i) If the age of the building is known or can be ascertained through local enquiry etc., the actual age of the building shall be taken subject to the maximum life span according to the type of construction.

- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted.

If the age can not be found out by any means, the same shall be assumed as 50 years.

- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
- 12. The rate of depreciation be taken as : 100/Life span for each category.
- 13. The cost of land should be worked out by a committee consisting of the concerning S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from UIT/ Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration. Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building, unless the entire land is specifically required.
- 14. For buildings more than one storey the distribution of cost of land shall be made as under :
 - a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
- 15. Any taxes such as House tax, Land & Building tax etc., is to be borne by the owner.
- 16. This order shall come in force with immediate effect from 24.4.2006 and will not effect the cases assessed in the past.

-Sd-
(H.L. MINA)
CHIEF ENGINEER
PWD Raj. Jaipur

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/2011

1. For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.

2. This order supersedes, the Standing Order No. 151, 160, X-3/1973, X-3/1979, X-3/1981, X-3/1984, X-3/1987, X-3/1990, X-3/1993, X-3/1995, X-3/1997 & A-3/2006 issued earlier. The market value of building for the purpose of the sale or purchase of property shall be determined as per instructions contained in Standing Order No. 138.

3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

1 For masonry Structures:-

S.NO.	Building Portion-description	Plinth area rate (in Rs.)
a.	Basement floor upto 2.5 m. height	4050/- per Sqm.
b.	Ground floor over basement	4700/- per Sqm.
c.	Ground floor without basement	5625/- per Sqm.
d.	First floor	4950/- per Sqm.
e.	Second floor	5125/- per Sqm.
f.	Add for third & fourth floor	325/- each floor
g.	Mezzanine floor	1225/- per Sqm.
h.	Compound wall one meter high above ground level including ordinary gates	1050/- Rmt.
i.	CGI/AC sheet closed on 3 sides with pucca floor	2975/- per Sqm.
j.	Pucca Out Houses and garage with shutters	3875/- per Sqm.
k.	Plat-form	650/- per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f):

a	Basement floor (3 mtr. ceiling height)	4950/- per sqm.
b	Ground floor (3 mtr. height) over basement.	5450/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	6625/- per sqm.
d	First floor (3 mtr. height)	5625/- per sqm.
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	300/- per sqm.

- 5 For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above :

S. No.	Building Portion/ Description	For masonry structures	RCC framed structures
a	Increase/Decrease by every 30cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring.	(As per difference in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	Upto 15%	Upto 10% (Analysis to be worked out)
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%
h.	Less for poor finish.	5 to 10%	5 to 10% (Analysis to be worked out)
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.	(As per actual estimate)	(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 40/- per Sqm.	Rs. 40/- per Sqm.
k.	Electrical installation without ceiling fans.	10%	8.5%
(a)	Add extra for conduit wiring	2%	1.5%
(b)	Add extra for Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except item 3(h) & 3 (k)	10%	7%
m.	Water supply (except item 3(h) & 3(k)	4%	3%
n.	External cladding	(As per actual Estimate)	(As per actual)
o.	Fire fighting system.	(As per actual Estimate)	(As per actual)
p	External Glazing work, ACP, Aluminium work (Anodised / Powder Coated), Pressed Steel Door frame work, Fibre / Acrylic/ Polycarbonate Sheet, Wall Panelling, False Ceiling work etc.	(As per actual Estimate)	(As per actual)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.

6. Roads Work at Current B.S.R.
7. The above rates apply to the building having :
- (i) A ceiling height of 3.20 m. (wall bearing structures/ 3.00 M framed structures)
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.

- (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood of solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines within the campus.
 - (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :
- Where -

$$D = P (1 - rd/100)^n$$
 D = Depreciated Value
 rd = The fixed percentage for depreciation.
 P = The cost at the present market rate.
 n = The number of years the building had been constructed.
10. The following may be assumed as the life span of the various type of buildings :
- a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 Years
 - b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years
 - c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.
11. (i) If the age of the building is known or can be ascertained through local enquiry etc., the actual age of the building shall be taken subject to the maximum life span according to the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate of depreciation be taken as : 100/Life span for each category.

13. The cost of land should be worked out by a committee consisting of the concerning S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from UIT/ Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration. Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building, unless the entire land is specifically required.
14. For buildings more than one storey the distribution of cost of land shall be made as under :
 - a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. Any taxes such as House tax, Land & Building tax etc., is to be borne by the owner.
16. This order shall come in force with immediate effect from 24.4.2006 and will not effect the cases assessed in the past.
17. The rate applicable for determining the Fair Rent Certificate (FRC), for Government/ Private Buildings shall be in accordance with the Circular No. CE/SE (DB)/D-1932 dated 20-01-2007.
18. Any taxes such as Property Tax, Development Tax, Sewerage Tax etc. is to be borne by the owner.
19. The order shall come into force with immediate effect and will not affect the cases assessed in the past.

Date :- 26-04-2011

-Sd-
(Chiranjeevi Lal)
CHIEF ENGINEER
PWD Raj. Jaipur

**GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/2015**

- For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.
- This order supersedes the Standing Order No. 151, 160, X-3/1973, X-3/1979, X-3/1981, X-3/1984, X-3/1987, X-3/1990, X-3/1993, X-3/1995, X-3/1997, X-3/2006 & X-3/2011 issued earlier. The market value of building for the purpose of the sale or purchase of property shall be determined as per instructions contained in Standing Order no. 138.
- The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

For masonry Structures:-		
S.No.	Building Portion-description	Plinth area rate per sqmt. (in Rs.)
a.	Basement floor upto 2.5 m. height	5330
b.	Ground floor over basement	6770
c.	Ground floor without basement	8100
d.	First floor	7130
e.	Second floor	7380
f.	Add for third & fourth floor	470
g.	Mezzanine floor	1760
h.	Compound wall one meter high above ground level including ordinary gates	1510
i.	CGI/AC sheet closed on 3 sides with puca floor	4150
j.	Puca Out House, and Garbage with shutters	5580
k.	Platform	940

(Ans)
Copy to AEN Sabon Ganati Nager - I / II / III / IV / Jamdoli / RPA /
Police Bldg east / Education North / Education South for
Information & 7/9/2015

SL
24/7/13
TT

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f): -

S.No.	Building Portion-description	Plinth area rate per Sq.mt. (in Rs.)
a	Basement floor (3 mtr. ceiling height)	7130
b	Ground floor (3mtr.height) over basement,	7850
c.	Ground floor in buildings without basement (3 mtr. height)	9540
d	First floor (3 mtr. height)	8100
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	430

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) as stated above :

S. No.	Building Portion/ Description	For masonry structures	RCC framed structures
a	Increase/Decrease by every 30cms. in height above or below	1.5%	1%
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring.	(As per difference in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition of maintenance	Upto 15% (Analysis to be worked out)	Upto 10% (Analysis to be worked out)

[Signature]

[Signature]

S. No.	Building Particular Description	For masonry structures	RCC framed structures -
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	1%	2%
h.	Less for poor finish.	5 to 10% (Analysis to be worked out)	5 to 10% (Analysis to be worked out)
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.	(As per actual estimate)	(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 40/- per Sqm.	Rs. 40/- per Sqm.
k.	Electrical installation without ceiling fans.	5%	3.5%
(a)	Add extra for conduit wiring	2%	1.5%
(b)	Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except items 3(h) & 3 (k))	10%	7%
m.	Water supply (except item 3(h) & 3(k))	4%	3%
n.	External cladding	(As per actual Estimate)	(As per actual)
o.	Fire fighting system.	(As per actual Estimate)	(As per actual)
p.	Extra glazing work, ACP, Aluminium work (Anodised/ Powder coated), Pressed steel doors framework, Fibre/Acrylic/Polycarbonate steel sheds, Wall paneling, False Ceiling work etc.	(As per actual Estimate)	(As per actual)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.



6. Road works at Current B.S.R.
7. The above rates apply to the building having :
 - (i) A ceiling height of 3.20m. (load bearing wall structures) and 3.00m ceiling height for framed structures.
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood of solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.
 - (vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines within the campus.
 - (viii) Stone slab roofing/RCC slab roofing with Beams or joists.
8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.
9. After valuation of the present day cost of the building, the depreciated cost should be calculated by the formula given below :

$$D = P (1 - rd/100)^n$$

Where

 - D = Depreciated Value
 - rd = The fixed percentage for depreciation.
 - P = The cost at the present market rate.
 - n = The number of years the building had been constructed.
10. The following may be assumed as the life span of the various type of buildings :
 - a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 Years
 - b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years

(S)

- c Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years
 - d Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.
11. (i) If the age of the building is known or can be ascertained through local enquiry etc., the actual age of the building shall be taken subject to the maximum life span according to the type of construction.
- (ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.
- (iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.
12. The rate of depreciation be taken as : $100/\text{Life span}$ for each category.
13. The cost of land should be worked out by a committee consisting of the concerned S.E., T.A. to S.E. and Executive Engineer(s) after considering the rates obtained from U.I.T/ Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration. Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building, unless the entire land is specifically required.
14. For buildings more than one storey the distribution of cost of land shall be made as under :
- a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. For issuing Fair Rent Certificate (FRC), the space being taken on rent by various departments should be in accordance with the Standing Order No. 144.

*[Signature]**[Signature]**[Signature]*

(6)

16. Revision of Fair Rent Certificate (FRC), shall be issued as per Clause 5 of Contingent & Miscellaneous Expenditure Part II of GF & AR (Part I).
17. The rate applicable for determining the Fair Rent Certificate (FRC), for Government / Private Building shall be in accordance with the Circular No. CE/SE(DB)/D-1932 dated 20.01.2007.
18. Any Taxes such as Property Tax, Development Tax, Sewerage Tax etc. is to be borne by the owner.
19. This order shall come in force with immediate effect and will not affect the cases assessed in the past.

Date : 15.07.2015

(G.L. Rao) 15-7-15
 Chief Engineer & Addl. Secy.
 Public Works Department
 Rajasthan, Jaipur

No. CE/SE(B)B- EEB(B-I) D-218

Dated: 15.07.2015

- Copy submitted / forwarded to the following for information and necessary action:-
1. The Accountant General, Rajasthan, Jaipur
 2. The Principal Secretary, PWD, Govt. of Rajasthan, Jaipur
 3. The Secretary, PWD, Govt. of Rajasthan, Jaipur
 4. The Chief Engineer & Addl. Secretary, PWD, Govt. of Rajasthan, Jaipur
 5. The Chief Engineer (Buildings)/NH/Roads/PMGSY/BS, PWD, Rajasthan, Jaipur
 6. The Addl. Chief Engineer, PWD, Zone- (ALL).
 7. The Superintending Engineer, PWD, Circle- (ALL).

The Executive Engineer, PWD, Jaipur

PWD City Cr. 111 Jaipur

No. 8089 Date 21-7-15
Ar/Clerk

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copy to All REENS ETX (ALL)
Space and copy for 5240

(M.L. VERMA)
 Superintending Engineer(Bldg.)
 PWD, RAJASTHAN, JAIPUR

dt - 15-7-15

Copy forwarded to Executive Engineer
 P.W.D. City Dir 2nd/IInd/IIIrd / Contractor/
 Delhi for information & my release

✓ 1517/2015
 धनेश वामदास एवं समाजी की सहायता
 राज रियल इंडस्ट्रीज
 अमृतपुर

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT
STANDING ORDER No. X-3/2021

1. For determining the present day value of the buildings with a view to assess the Fair Rent of the residential/other ordinary buildings required to be hired by the Govt. Department and the standard rent of Govt. buildings rented to Central Govt./State Govt./other officers and Private parties, the following rules shall henceforth be observed. These rules are meant for use by the PWD, Rajasthan.
2. This order supersedes, the Standing Order No. 151, 160, X-3/1973, X-3/1979, X-3/1981, X-3/1984, X-3/1987, X-3/1990, X-3/1993, X-3/1995, X-3/1997, X-3/2006, X-3/2011 & X-3/2015 issued earlier.
3. The circular may be adopted for valuation of properties except for the purpose of sale and purchase of buildings by Govt. of Rajasthan for which, Standing Order No. 138 shall continue to be applied.

For masonry Structures:-

S.NO.	Building Portion-description	Plinth area rate (in Rs.)
a.	Basement floor upto 2.5 m. height	7000/- per Sqm.
b.	Ground floor over basement	8120/- per Sqm.
c.	Ground floor without basement	9720/- per Sqm.
d.	First floor	8560/- per Sqm.
e.	Second floor	8860/- per Sqm.
f.	Add for third & subsequent floors	560/- each floor
g.	Mezzanine floor	2110/- per Sqm.
h.	Compound wall one meter high above ground level including ordinary gates	1810/- Rmt.
i.	CGI/AC sheet closed on 3 sides with pucca floor	5140/- per Sqm.
j.	Pucca Out Houses and garage with shutters	6700/- per Sqm.
k.	Plat-form	1130/- per Sqm.

4. For RCC framed multistoried structures the following rates shall be applicable in place of rates at 3(a) to 3(f):

S.NO.	Building Portion-description	Plinth area rate (in Rs.)
a	Basement floor (3 mtr. ceiling height)	8560/- per sqm.
b	Ground floor (3 mtr. height) over basement.	9420/- per sqm.
c.	Ground floor in buildings without basement (3 mtr. height)	11450/- per sqm.
d	First floor (3 mtr. height)	9720/- per sqm.
e.	Add extra for second & every subsequent floors (3 mtr. ht.) over rate of item 4 (d)	520/- per sqm.

5. For other specifications the following percentage shall be added/reduced in item 3(a) to 3(j) and 4(a) to 4(e) stated above:

S. No.	Building Portion/ Description	For masonry structures	RCC framed structures
8	Increase/Decrease by every 30cms. in height above or below	1.5%	1%

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S. No.	Building Portion/ Description	For masonry structures	RCC framed structures
b	Add for mosaic flooring with gray cement or that of unpolished rough dressed stone flooring in place of C.C. floor.	5%	3%
c	Add for mosaic flooring with white cement.	7.5%	5%
d.	Add for fine polished stone flooring/ marble flooring / Granite flooring / tile flooring.	(As per difference in prevailing B.S.R.) (Actual area to be measured)	
e.	Add for high-class finish with rich specifications and good condition off maintenance	Upto 15% (Analysis to be worked out)	Upto 10% (Analysis to be worked out)
f.	Add extra for first class/selected grade teak wood frame with teak facing ply flush door polished.	10%	7%
g.	Add for wire gauge doors & windows & safety bars.	3%	2%
h.	Less for poor finish.	5 to 10% (Analysis to be worked out)	5 to 10% (Analysis to be worked out)
i.	Add for items e.g. hot & cold water system expensive fixtures and fittings, glazed tiles, built in furniture, marble slabs and any other item or facilities not covered in the item specified above.	(As per actual estimate)	(As per actual estimate)
j.	Add also for lawns hedges etc. maintained.	Rs. 40/- per Sqm.	Rs. 40/- per Sqm.
k.	Electrical installation without ceiling fans.	10%	8.5%
(a)	Add extra for conduit wiring	2.5%	1.5%
(b)	Add extra for Cost of ceiling fans to be added extra as per number of fans.		
l.	Sanitary fittings (except item 3(h) & 3(k)	10%	7%
m.	Water supply (except item 3(h) & 3(k)	4%	3%
n.	External cladding	(As per actual Estimate)	(As per actual Estimate)
o.	Fire fighting system.	(As per actual Estimate)	(As per actual Estimate)
p	External Glazing work, ACP, Aluminium work (Anodised / Powder Coated), Pressed Steel Door frame work, Fibre / Acrylic/ Polycarbonate Sheet, Wall Panelling, False Ceiling work etc.	(As per actual Estimate)	(As per actual Estimate)

Note : For superior fittings such as bath tubs, water heaters etc. as per actual.

6. Road Works at Current B.S.R.

7. The above rates apply to the building having :
- (i) A ceiling height of 3.20 m. (load bearing wall structures/ 3.00 M framed structures)
 - (ii) Wall plastered on both sides and pointed externally.
 - (iii) Ordinary cement floor.
 - (iv) Walls and pillar masonry in lime or cement.
 - (v) Second class teak-wood of solid core/flush door and window shutters with ordinary iron fittings and ordinary paint.
 - (vi) Ordinary electric wiring with light & ordinary power circuits and with moderate fittings.

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(vii) Good and adequate sanitary fittings such as Indian or English type W.C. with flushing cistern, wash basin, towel rail, etc. in each bath room as per norms fixed by P.W.D. for type design including septic tank, soak pit and sewer lines within the campus.

(viii) Stone slab roofing/RCC slab roofing with Beams or joists.

8. If there are any variations in the above specifications then percentage to be added or reduced, should be worked out proportionately.

9. After valuation of the present day cost of the building as though it is now, the depreciated cost should be calculated by the formula given below :

$$D = P (1 - rd/100)^n$$

Where -

D = Depreciated Value

rd = The fixed percentage for depreciation.

P = The cost at the present market rate.

n = The number of years the building had been constructed.

10. The following may be assumed as the life span of the various type of buildings :

a. RCC framed buildings, building built of stone in lime masonry walls or brick in lime masonry, stone slab or RCC roof, cement concrete or stone flag flooring and teak wood joinery. Life 80 to 100 Years

b. Buildings of slightly inferior specifications such as stone in mud or bricks in mud masonry, lime plastered walls, stone slab roofing or terraced roofing or stone flags with ordinary or lime terrace and 2nd class teak wood or other equivalent quality, and timber joinery. Life 60 to 80 years

c. Building of semi-permanent nature such as built partly of brick in lime mortar and partly of brick in mud mortar, wooden joints or AC or CGI sheet roofing and country wood joinery. Life 50 to 60 years

d. Temporary building such as buildings in mud mortar and inferior specifications or structures with country tiles roof and thatch etc. Life 10 years or less.

11. (i) If the age of the building is known or can be ascertained through local enquiry etc., the actual age of the building shall be taken subject to the maximum life span according to the type of construction.

(ii) If the exact age of the building can not be ascertained but the approximate age can be found out, then that age shall be adopted. If the age can not be found out by any means, the same shall be assumed as 50 years.

(iii) The Executive Engineers should exercise their judgment carefully to decide as to which category the building in question belongs and to estimate the actual life within the category.

12. The rate of depreciation be taken as : 100/Life span for each category.

13. The cost of land should be worked out by a committee consisting of the concerning S.E., T.A. to SE and Executive Engineer(s) after considering the rates obtained from UIT/

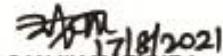
Page No-3

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Municipality/Registration Deptt./any other authority having jurisdiction or the administration of land in that area. The committee should exercise its discretion carefully, taking all the facts like importance of the place etc. into consideration. Land in excess of four times the built-up area of the building should not be counted for determining the total cost of land and building, unless the entire land is specifically required.

14. For buildings more than one storey the distribution of cost of land shall be made as under:
 - a The cost of built-up land area shall be distributed in proportion to the built-up area on individual floors.
 - b The cost of open land shall be distributed in proportion to the actual use of land by different tenants on individual floors.
 - c The area under commercial use shall be given double weight-age of the area under residential use.
15. For issuing Fair Rent Certificate (FRC), the space being taken on rent by various departments should be in accordance with the Standing Order No.144
16. Revision of rent shall be issued as per Provision For Certain Kinds of Contingent Expenditure of GF & AR.
17. The rate applicable for determining the Fair Rent Certificate (FRC), for Government/ Private Buildings shall be in accordance with the Circular No. CE/SE (DB)/D-1932 dated 20-01-2007.
18. Any taxes such as Property Tax, Development Tax, Sewerage Tax, House tax, Land & Building tax etc., is to be borne by the owner.
19. The order shall come into force with immediate effect and will not affect the cases assessed in the past.

Date 17.08.2021


 17/08/2021
 (SANJIV MATHUR)
 Chief Engineer & Addl. Secy.
 Public Works Department
 Rajasthan, Jaipur

No. CE/SE(B)/D- 806

Date 17/08/2021

Copy submitted / forwarded to the following for information and necessary action:-

1. The Accountant General, Rajasthan, Jaipur.
2. The Principal Secretary, PWD, Govt. of Rajasthan, Jaipur
3. The Secretary, PWD, Govt. of Rajasthan, Jaipur
4. The Chief Engineer & Addl. Secretary, PWD, Govt. of Rajasthan, Jaipur
5. The Chief Engineer (Building) /NH/Roads/PMGSY/SS , PWD, Rajasthan, Jaipur
6. The Addl. Chief Engineer, PWD, Zone-.....(All)
7. The Superintending Engineer, PWD, Circle-.....(All)
8. The Executive Engineer, PWD, Division-.....(All)


 17.08.2021
 (L.K. Gupta)
 Superintending Engineer (Bldg.-I)
 Public Works Department
 Rajasthan, Jaipur

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TABLE OF DEPRECIATED COST OF BUILDINGS

$$D = P \left(1 - \frac{rd}{100}\right)^n$$

$$D = P \times C$$

rd = RATE OF DEPRICATION

(a) Take rd 1% for lime and cement masonry.

(b) rd 2% for mud masonry.

n = Number of Years

P = Present Day Cost

D = Depreciated Cost.

Number of Years	Value of C		Number of Year	Value of C	
	rd 1 %	rd 2 %		rd 1 %	rd 2 %
1	2	3	4	5	6
1.	0.9900	0.9800	51.	0.5965	0.3558
2.	0.9800	0.9603	52.	0.5905	0.3487
3.	0.9700	0.9410	53.	0.5845	0.3417
4.	0.9603	0.9221	54.	0.5786	0.3348
5.	0.9506	0.9036	55.	0.5720	0.3281
6.	0.9410	0.8855	56.	0.5670	0.3215
7.	0.9315	0.8678	57.	0.5613	0.3151
8.	0.9221	0.8502	58.	0.5556	0.3087
9.	0.9128	0.8333	59.	0.5500	0.3026
10.	0.9036	0.8166	60.	0.5445	0.2965
11.	0.8945	0.8002	61.	0.5391	0.2905
12.	0.8855	0.7841	62.	0.5335	0.2847
13.	0.8766	0.7624	63.	0.5282	0.2790
14.	0.8678	0.7520	64.	0.5229	0.2734
15.	0.8590	0.7379	65.	0.5176	0.2680
16.	0.8502	0.7237	66.	0.5124	0.2626
17.	0.8418	0.7086	67.	0.5072	0.2572
18.	0.8333	0.6944	68.	0.5021	0.2522
19.	0.8250	0.6805	69.	0.4971	0.2471

20.	0.8166	0.6668	70.	0.4920	0.2421
21.	0.8082	0.6534	71.	0.4871	0.2372
22.	0.8002	0.6403	72.	0.4821	0.2325
23.	0.7921	0.6275	73.	0.4773	0.2278
24.	0.7841	0.6149	74.	0.4725	0.2232
25.	0.7762	0.6026	75.	0.467	0.2288
26.	0.7674	0.5905	76.	0.4630	0.2144
27.	0.7607	0.5786	77.	0.4583	0.2101
28.	0.7520	0.560	78.	0.4537	0.2059
29.	0.7454	0.5556	79.	0.4491	0.2018
30.	0.7379	0.5445	80.	0.4446	0.1977
31.	0.7305	0.5335	81.	0.4401	0.1937
32.	0.7231	0.5229	82.	0.4357	0.1899
33.	0.7158	0.5124	83.	0.4313	0.1861
34.	0.7086	0.5021	84.	0.4270	0.1823
35.	0.015	0.4920	85.	0.4227	0.1786
36.	0.6944	0.4821	86.	0.4184	0.1751
37.	0.6874	0.4725	87.	0.4142	0.1716
38.	0.6805	0.4630	88.	0.4101	0.1681
39.	0.6736	0.4537	89.	0.059	0.1647
40.	0.6668	0.4446	90.	0.4018	0.1614
41.	0.6601	0.4357	91.	0.3977	0.1582
42.	0.6534	0.4270	92.	0.3938	0.1550
43.	0.6468	0.4184	93.	0.3897	0.1519
44.	0.6403	0.4101	94.	0.3859	0.1489
45.	0.6339	0.4018	95.	0.4819	0.1459
46.	0.6275	0.3938	96.	0.3781	0.1430
47.	0.6212	0.3859	97.	0.3743	0.1401
48.	0.6149	0.3781	98.	0.3704	0.1373
49.	0.6067	0.3705	99.	0.3667	0.1345
50.	0.6026	0.3631	100.	0.3631	0.1318

SAFE PERMISSIBLE LOAD ON MASONRY AND CONCRETE**TABLE – 1**

S. No.	Masonry / Concrete	Safe permissible load in MT / Sqm.
1.	Brick Masonry in CM 1 : 3	100
2.	Brick Masonry in CM 1 : 4	88
3.	Brick Masonry in CM 1 : 6	50
4.	Brick Masonry in Lime Mortar 1 : 2	44
5.	Ashlar stone Masonry in Lime Mortar 1 : 3	99 to 110
6.	Rubble Masonry in Lime Mortar	30 to 50
7.	Cement concrete 1 :1½ : 3	510
8.	Cement concrete 1 :2 : 4	440
9.	Cement concrete 1 :3 : 6	280
10.	Lime Concrete	50 to 75

COMPRESSIVE STRENGTH OF MORTAR AND CONCRETE**TABLE – 2**

S. No.	Mix	Compressive Strength in Kg/Cm ²	
		After 7 days curing	After 28 days curing
1.	Cement Sand Mortar 1:3	38	75 to 100
2.	Cement Sand Mortar 1:4	25	50 to 75
3.	Cement Sand Mortar 1:6	15	30 to 50
4.	Lime Sand Mortar 1:2	2.5	5 to 7
5.	Lime Surkhi Mortar 1:2	7.5	15 to 20
6.	Cement Concrete 1 : 4 : 8	38	75
7.	Cement Concrete 1 : 3 : 6	70	100
8.	Cement Concrete 1 : 2 : 4	105	150
9.	Cement Concrete 1 : 1½ : 3	140	200
10.	Cement Concrete 1 : 1 : 2	175	250

PROPERTIES OF MILD STEEL SQUARE AND ROUND BARS

TABLE-3

(0.7843KG./CM²/METRES)

Diameter or width mm	Weight per Meter		Sanctional Area		Perimeter	
	Square Kg.	Round Kg.	Square Cm²	Round Cm²	Square cm²	Round Cm²
05.0	0.20	0.15	0.25	0.20	2.0	1.57
05.5	0.24	0.19	0.30	0.24	2.2	1.77
06.0	0.28	0.22	0.36	0.28	2.4	1.88
07.0	0.38	0.30	0.49	0.38	2.8	2.20
08.0	0.50	0.39	0.64	0.50	3.2	2.51
09.0	0.64	0.50	0.81	0.64	3.6	2.83
10.0	0.78	0.62	1.00	0.79	4.0	3.14
11.0	0.95	0.75	1.21	0.95	4.4	3.46
12.0	1.13	0.89	1.44	1.13	4.8	3.77
13.0	1.54	1.21	1.96	1.54	5.6	4.40
16.0	2.01	1.58	2.56	2.01	6.4	5.03
18.0	2.54	2.00	3.24	2.54	7.2	5.65
20.0	3.14	2.47	4.00	3.14	8.0	6.28
22.0	3.80	2.98	4.84	3.80	8.8	6.91
25.0	4.91	3.85	6.25	4.91	10.0	7.85
28.0	6.15	4.82	7.84	6.16	11.2	8.80
32.0	8.04	6.31	10.24	8.04	12.8	10.05
36.0	10.17	7.99	12.96	10.18	14.40	11.31
40.0	12.56	9.86	16.00	12.67	16.00	12.57
45.0	15.90	12.49	20.25	15.90	18.00	14.14
50.0	19.62	15.41	25.00	19.64	20.0	15.71
56.0	24.62	19.34	31.36	24.63	22.4	17.59
63.0	31.16	24.47	39.69	31.17	25.2	19.78
71.0	39.47	31.08	50.41	39.49	28.4	22.31
80.0	50.24	39.36	64.0	50.27	32.0	25.13

PROPERTIES OF RIBBED OR TOR STEEL

TABLE – 4

Size (mm)	Area (Cm²)	Weight per Metre (Kg.)	Perimeter (Cm)	Length per MT (Metre)	Minimum Bend Radius
06	0.283	0.222	1.89	4510	
08	0.503	0.395	2.51	2532	
10	0.785	0.617	3.14	1631	
12	1.131	0.888	3.77	1125	
14	1.539	1.208	4.40	829	4d
16	2.011	1.578	5.03	633	
18	2.545	2.000	5.65	500	
20	3.142	2.466	6.28	405	
22	3.801	2.980	6.91	336	
25	4.909	3.854	7.85	260	
28	6.157	4.830	8.80	207	
32	8.042	6.313	10.05	159	
36	10.179	7.990	11.31	125	
40	12.566	9.864	12.57	101	6d
50	19.635	15.410	15.71	65	

SUBSTITUTION AS TENSION REINFORCEMENT

TABLE – 5

Mild Steel (mm)	8	10	12	16	20	22	25	28	32	36	40	50
Ribbed or TOR Steel (mm)	6	8	10	12	16	18	20	22	25	28	32	36

SUBSTITUTION AS TENSION REINFORCEMENT

TABLE – 6

Mild Steel (mm)	12	16	20	22	25	28	32	36	40	50
Ribbed or TOR Steel (mm)	10	14	2x12	18	20	22	2x18	2x20	32	40

WEIGHTS OF CONSTRUCTION MATERIALS

TABLE – 7

S. No.	Materials	Weight in Kg.	Per	Remarks
Earth Soil Clay etc.				
1.	Earth alluvial undisturbed	1600	Cum.	
2.	Earth dry	1413 – 1850	Cum.	
3.	Earth Moist	1600 – 2000	Cum.	
4.	Clay wet compact	2080	Cum.	
5.	Clay Moist compact	1760	Cum.	
6.	Clay Dry compact	1440	Cum.	
7.	Clay Dry lumps	1040	Cum.	
8.	Gravel loose	1600	Cum.	
9.	Gravel rammed	1920 – 2160	Cum.	
10.	Shingle 3mm to 30mm	1460	Cum.	
11.	Sand dry clean	1540 – 1600	Cum.	
12.	Sand dry River	1840	Cum.	
13.	Sand wet	1760 – 2000	Cum.	
14.	Peat dry	580 – 640	Cum.	
15.	Sand dry compact	800	Cum.	
16.	Sand wet compact	1360	Cum.	
17.	Lime unslaked	870 – 1050		
Liquids				
1.	Alcohol	780	Cum.	
2.	Creosote	1070	Cum.	
3.	Diesel oil	960	Cum.	
4.	Oil Linseed	930	Cum.	
5.	Oil Terpentine	860	Cum.	
6.	Petrol	690	Cum.	
7.	Varnish	960	Cum.	
8.	Water Fresh	1000	Cum.	
9.	Water Salty	1025	Cum.	
Building Stones				
1.	Basalt	2600	Cum.	
2.	Ginesis	2400 – 2690	Cum.	
3.	Graphic	2690 – 2800	Cum.	
4.	Laterite	2080 – 2400	Cum.	
5.	Lime stone	2400 – 2640	Cum.	
6.	Marble	7220	Cum.	
7.	Pumice	800 – 1200	Cum.	
8.	Quartzite	2640	Cum.	
9.	Sand stone	2240 – 2400	Cum.	
10.	Slate	2800	Cum.	
11.	Chalk	1600 – 1920	Cum.	
S.	Materials	Weight in Kg.	Per	Remarks

No.				
Metals and Alloys				
1.	Iron pig	7200	Cum.	
2.	Grey cast iron	7030 – 7130	Cum.	
3.	Iron wrought	7700	Cum.	
4.	Steel cast	7850	Cum.	
5.	Steel wrought mild	7800	Cum.	
6.	Copper cast	8790 – 8940	Cum.	
7.	Copper wrought	8840 – 8940	Cum.	
8.	Lead cast	11340	Cum.	
9.	Lead wrought	11360	Cum.	
10.	Mangansee	7400	Cum.	
11.	Mercury	13600	Cum.	
12.	Nickel	8280 – 8810	Cum.	
13.	Aluminium	2580 – 2710	Cum.	
14.	Aluminium wrought	2640 – 2800	Cum.	
15.	Steel black plates	7.9	Sqm. per mm thickness	
16.	Copper plates	8.69	Sqm. per mm thickness	
17.	Lead plates	11.0	Sqm. per mm thickness	
18.	Aluminium plates	2.8	Sqm. per mm thickness	
19.	Brasses (Red & White)	8190 – 8220	Cum.	
20.	Brasses Yellow	8440 – 8680	Cum.	
Timber				
1	Hardwood such as axle wood babool etc.	640-690	Cum	
2	Light wood such as fir, senal	400-480	Cum	
3	Medium wood such as Pine, Deodar, Chir. Mango	480-640	Cum	
4	Teak	625	Cum	
Bricks				
1	Common brunt clay bricks	1600-1920	Cum	
2	Engineering bricks	2160	Cum	
3	Brick blast	1200	Cum	
4	Brick dust (Surkhi)	1000	Cum	
Cement				
1	Ordinary and alumina	1440	Cum	
2	Repaired hardening	1050-1280	Cum	
Cement concrete Plain				
1	Areated	260	Cum	
2.	Brick Aggregate	1760-2160	Cum	
3.	Stone ballast	2240-2400	Cum	

S. No.	Materials	Weight in Kg.	Per	Remarks
Reinforcement Cement Concrete				
1	With 1% Steel	2310-2470	Cum	
2	With 2% Steel	2370-2530	Cum	
3	With 3% Steel	2560-2720	Cum	
4	Concrete with brick agg. and lime mortar	1920	Cum	
Masonry				
1	Brick masonry with common burnt clay bricks	1920	Cum	
2	Brick masonry with 7 mounted bricks	2400	Cum	
3	Stone masonry dry rubble	2000	Cum	
4	Stone masonry in mortar of lime, sand stone, granite etc.	2240-2640	Cum	
Roofing				
1	Country tilled (Double) including battens	120	Sqm	
2	Country tiled (Single)	70	Sqm	
3	Manglore tiled with battons	65	Sqm	
4	C.G.I. Sheet	10-13	Sqm	
5	A.C. Sheet	34	Sqm	
Mortar				
1	Cement	2030	Cum	
2	Lime	1600-1840	Cum	

USEFUL CONVERSION TABLES

TABLE 8

S. No	To Convert	Into	Multiply By	Divide By
1	Metres	Yards	1.09361	0.9144
2	Metres	Feet	3.28084	0.3048
3	Metres	Inches	39.3701	0.0254
4	Kilometre	Mile	0.62137	1.60934
5	Square Kilometre	Square Mile	0.386101	2.58999
6	Square Metre	Sq. Yards	1.19599	0.83613
7	Square Yards	Sq. Ft.	10.7659	0.092903
8	Square Metre	Sq. Inches	1550.00	0.00064516
9	Square Centimetres	Sq. Inches	0.1550	6.4516
10	Hectare (1000 Sq. M.)	Acres	247105	0.404686
11	Cubic Metres	Cubic Ft.	35.3147	0.028317
12	Cubic Metres	Gallons (IMP)	2.19969	0.00454609
13	Cubic Centimetres	Cubic Inches	0.061024	16.3871
14	Litre	Gallon	0.219975	4.54506
15	Kilograms	Pounds	2.2046	0.4535924
16	Quintal (100 Kg.)	Maunds	2.67923	0.373242
17	Quintal (100 Kg.)	Hundred Weight	1.96840	0.50802
18	Tonnes (Metric Ton)	Tons (British)	0.9892	1.01605
19	Tonnes (Metric Ton)	Maunds	26.7923	0.0373242
20	Kilometres per hour	Miles Per hour	0.62173	1.60934
21	Kilometres per hour	Ft. per Sec.	0.91134	1.09728
22	Gramme per Cub. Cm.	Pound Per cu. Inch	0.0361273	26.6799
23	Kilometres per Cum	Pound Per cu. Ft.	0.0624	16.018
24	Kilometres per litre	Pound Per cu. Ft.	62.426	0.0160189
25	Kilometres per Sqm	Pound Per Sq. Inch	14.2233	0.07.0307
26	Tonne/Per Sqm	Ton per Sq. foot	0.09143	10.937
27	Kilometres per Sqm	Pound Per Sq. Ft.	0.20428	4.8924
28	Kilometres per metre	Pound Per Ft.	0.61797	1.48816
29	Kilometres Metre	Ft Pound	7.231	0.1382

MATERIAL CONSUMPTION STATEMENT
QUANTITY OF MATERIALS REQUIRED FOR VARIOUS TYPE OF
MASONRY FOR ONE CUM.

S. No.	Type of Masonry	Qty. of Stone / Bricks	Qty. of Mortar Cum
1.	R.R. Stone masonry for foundation / superstructure wall in mortars.	1.14 Cum	0.33
2.	Dry Stone R.R. retaining wall masonry	1.14 Cum	--
3.	Dry Stone C.R. retaining wall masonry	1.24 Cum	--
4.	R.R. Dry Stone Pitching	1.14 Cum	--
5.	C.R. Dry Stone Pitching	1.24 Cum	--
6.	R.R. Stone Pillar masonry in mortar	1.20 Cum	0.33
7.	Arch masonry in mortar	1.25 Cum	0.25
8	Cut Stone Arch masonry in mortar	1.25 Cum	0.25
9	Relieving Arch masonry in mortar	1.25 Cum	0.25
10	Brick masonry for foundation / superstructure in mortars size 22.9x11.1x7.0cm. with 1cm. thick mortar joint.	473Nos	0.237

QUANTITY OF MATERIALS FOR VARIOUS NOMINAL MIX
(ONE CUM OF CONCRETE)

S. No.	Mix	Requirement of Cement			Sand	Coarse Aggregate
		Cum	Tonnes	Bags		
1	Cement Concrete M-20 (1:1.5:3)	0.283	0.400	8.00	0.425	0.85
2	Cement Concrete M-15 (1:2:4)	0.222	0.322	6.44	0.445	0.90
3	Cement Concrete (1:3:6)	0.156	0.220	4.40	0.470	0.94
4	Cement Concrete (1:4:8)	0.120	0.170	3.40	0.48	0.96
5	Cement Concrete (1:5:10)	0.098	0.140	2.80	0.49	0.98

**MATEIAL CONSUMPTION STATEMENT FOR VARIOUS TYPE OF
MORTARS FOR ONE CUM**

S. No.	Mix	Requirement of Cement			Lime Cum	Sand / Marble Powder
		Cum	Tonnes	Bags		
1	Lime Sand Mortar (1:2)	--	--	--	0.475	0.95
2	Lime Sand Mortar (1:3)	--	--	--	0.367	1.07
3	Cement Mortar (1:3)	0.357	0.510	10.20	--	1.07
4	Cement Mortar (1:4)	0.258	0.386	7.72	--	1.07
5	Cement Mortar (1:5)	0.214	0.308	6.16	--	1.07
6	Cement Mortar (1:6)	0.179	0.256	5.12	--	1.07
7	Cement Mortar (1:7)\	0.153	0.220	4.40	--	1.07
8	Cement Mortar (1:8)	0.134	0.193	3.86	--	1.07
9	Composite Mortar (Cement : Lime : Sand) 1:1:6	0.178	0.256	5.12	0.178	1.07
10	Composite Mortar (Cement : Lime : Sand) 1:2:9	0.190	0.173	3.46	0.24	1.07

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
RCC/BR Work :				
1.	R.B. work in cement mortar 1 : 2	Cum		3.00
2.	R.C.C. door and window frames :			
	(a) 100 x 75 mm size	Mtr.		0.06
	(b) 125 x 75 mm size	Mtr.	-	0.07
3.	R.C.C. shelves in 1 : 2 : 4 mix :			
	(a) 20mm thick	Sqm	-	0.13
	(b) 25mm thick	Sqm	-	0.16
	(c) 30 mm thick	Sqm	-	0.19
4.	Pre cast cement concrete jali in 1 : 2 : 4 for fixing of :			
	(a) 50mm thick	Sqm	-	0.03
	(b) 40mm thick	Sqm	-	0.03
	(c) 30mm thick	Sqm	-	0.03
	(d) 20mm thick	Sqm	-	0.03
Masonry :				
5.	R.R. stone masonry in :			
	(a) Cement mortar 1 : 3	Cum	-	3.40
	(b) Cement mortar 1 : 4	Cum	-	2.50
	(c) Cement mortar 1 : 6	Cum	-	1.60
	(d) Cement mortar 1 : 8	Cum	-	1.25
	(e) Cement lime sand mortar 1 : 2 : 9	Cum	-	1.10
	(f) Cement lime sand mortar 1 : 3 : 12	Cum	-	0.85
6.	Ashlar veneer facing in cement mortar 1 : 4 including Cement pointing in 1 : 3 cement mortar.	Cum	-	0.25
7.	Brick masonry in :			
	(a) Cement mortar 1 : 3	Cum	-	2.40
	(b) Cement mortar 1 : 4	Cum	-	1.80
	(c) Cement mortar 1 : 6	Cum	-	1.20
	(d) Cement mortar 1 : 8	Cum	-	0.90
	(e) Cement lime sand mortar 1 : 2 : 9	Cum	-	0.80
	(f) Cement lime sand mortar 1 : 3 : 12	Cum	-	0.60
8.	75mm thick brick pardi wall in :			
	(a) Cement mortar 1 : 4	Sqm	-	0.15
	(b) Cement mortar 1 : 6	Sqm	-	0.09
	(c) Cement mortar 1 : 8	Sqm	-	0.07
9.	112mm thick brick pardi wall in :			

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
	(a) Cement mortar 1 : 4	Sqm	-	0.21
	(b) Cement mortar 1 : 6	Sqm	-	0.15
	(c) Cement mortar 1 : 8	Sqm	-	0.10
	Damp Proof Course :			
10.	Laying damp proof coarse 25mm thick in C.M. 1 : 3.	Sqm	-	0.255
11.	Laying cement concrete M.15 (1 : 2 : 4) for damp proof or coping :			
	(a) 30mm thick	Sqm	-	0.192
	(b) 50mm thick	Sqm	-	0.320
	(c) 75mm thick	Sqm	-	0.480
	(d) 100mm thick	Sqm	-	0.640
	Stone Work			
12.	Fixing stone sills and coping in cement mortar 1 : 3	Sqm	-	0.10
13.	Fixing stone sills and coping in cement mortar 1 : 4	Sqm	-	0.08
14.	Fixing stone shelves in cement mortar 1 : 3	Sqm	-	0.02
15	Fixing Karauli stone steps in cement mortar 1 : 4	Sqm	-	0.08
	Roofing :			
16.	Stone slab roofing.	Sqm	-	0.01
17.	Brick kharanja in cement sand mortar 1 : 4 on edge.	Sqm	-	0.09
18.	Providing flat brick kharanja in cement mortar 1 : 6.	Sqm	-	0.07
19.	Providing stone slab covering over drain including filling of joints in cement sand mortar 1 : 3 with 35mm thick cement concrete flooring 1 : 2 : 4.	Sqm	-	0.43
20.	Making khurras 45 x 45 C.M. with minimum 5cm. thick cement concrete 1 : 2 : 4 over PVC sheet, finished with 12mm cement plaster 1 : 3 and a floating coat of cement.	Each	-	0.12

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
	Flooring :			
21.	Coarse stone paving 125mm to 150mm with pointing in cement mortar 1 : 3.	Sqm	-	0.25
22.	Coarse stone paving 200mm to 225mm with pointing in cement mortar 1 : 3.	Sqm	-	0.20
23.	Brick on edge flooring laid on 12mm thick mortar including filling joints with slurry etc. in :	Sqm		
	(a) Cement sand mortar 1 : 6	Sqm	-	0.26
	(b) Cement sand mortar 1 : 4	Sqm	-	0.37
25.	Providing and laying cement concrete flooring in M 10 grade :			
	(a) 25 mm thick.	Sqm	-	0.11
	(b) 30 mm thick.	Sqm	-	0.13
	(c) 38 mm thick.	Sqm	-	0.17
	(d) 50 mm thick.	Sqm	-	0.22
	(e) 75 mm thick.	Sqm	-	0.33
26.	40mm thick red oxide flooring under layer of 30mm thick cement concrete 1 : 2 : 4 and top layer of 10 mm thick plaster of cement red oxide mix and sand mortar 2 : 3 finished with a coat of neat cement red oxide mix etc.	Sqm	-	0.35
27.	40 mm thick polished cement concrete flooring under layer of 30mm 1 : 2 : 4 concrete and top layer 10 mm thick of mix 1 : 2 cement stone dust etc.	Sqm	-	0.40

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
28.	52mm thick cement concrete flooring with metallic concrete hardner topping under layer of 40mm thick 1 : 2 : 4 concrete and top layer of 12mm thick metallic concrete hardner consisting of mix 1 : 2 cement metallic hardening compound mixed in ratio 4 : 1 (4 cement 1 : part of metallic hardening compound by wt.) including slurry etc. complete.	Sqm	-	0.46
29.	Cement plaster skirting with cement mortar 1 : 3 finished with a floating coat of neat cement :			
	(a) 18 mm thick.	Sqm	-	0.21
	(b) 25 mm thick.	Sqm	-	0.28
30.	Red oxide plaster skirting with top layer of 6mm thick cement red oxide mix in mortar 1 : 3 (cement red oxide 1 : sand 3) finished with a floating coat of cement red oxide mix:			
	(a) 18 mm thick.	Sqm	-	0.20
	(b) 25 mm thick.	Sqm	-	0.26

S.No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg. (OPC)	Bags of 50 Kg. (White)
31.	40mm thick marble chips flooring under layer 34mm thick cement concrete 1 : 2 : 4 and top layer of 6mm thick marble chips laid in cement marble powder mix 3 : 1 by weight in proportion of 4 : 7 (4 marble cement powder : 7 marble chips) including cement slurry :				
	(a) With ordinary cement.	Sqm	-	0.34	-
	(b) With dark shade pigment with ordinary cement.	Sqm	-	0.33	-
	(c) Light shade pigment with white cement or without pigment in white cement.	Sqm	-	0.26	0.068
	(d) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	-	0.30	0.034
32.	40mm thick marble chips flooring under layer 31mm thick cement concrete 1 : 2 : 4 and top layer of 9mm thick marble chips laid in cement marble powder mix 3 : 1 by weight in proportion of (4 marble cement powder : 6 marble chips) including cement slurry :				
	(a) With ordinary cement.	Sqm	-	0.37	-
	(b) With dark shade pigment with ordinary cement.	Sqm	-	0.36	-
	(c) Light shade pigment with white cement or without pigment in white cement.	Sqm	-	0.24	0.102
	(d) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	-	0.30	0.051
33.	40mm thick marble chips				

S.No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg. (OPC)	Bags of 50 Kg. (White)
	flooring under layer 28mm thick cement concrete 1 : 2 : 4 and top layer of 12mm thick in cement marble powder mix 3 : 1 by weight in proportion of (4 cement marble powder mix : 5 marble chips) including cement slurry etc :				
	(a) With ordinary cement.	Sqm	-	0.39	-
	(b) Dark shade pigment in ordinary cement.	Sqm	-	0.38	-
	(c) Light shade pigment in white cement or without pigment in white cement.	Sqm	-	0.21	0.136
	(d) Medium shade pigment with 50% white cement and 50% ordinary cement..	Sqm	-	0.30	0.068
34.	40mm thick marble chips flooring under layer 25mm thick cement concrete 1 : 2 : 4 and top layer of 15mm thick cement marble powder mix 3 : 1 by weight in proportion of cement marble powder mix marble chips by volume including cement slurry etc. complete :				
	(a) With ordinary cement.	Sqm	-	0.40	-
	(b) Dark shade pigment in ordinary cement.	Sqm	-	0.39	-
	(c) Light shade pigment in white cement or without pigment in white cement.	Sqm	-	0.22	0.170
	(d) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	-	0.30	0.085
35.	Marble chips skirting 26mm thick under layer 20mm				

S.No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg. (OPC)	Bags of 50 Kg. (White)
	thick cement plaster 1 : 3 and top layer of 6mm thick marble chips :				
	(a) With ordinary cement.	Sqm	-	0.28	-
	(b) Dark shade pigment in ordinary cement.	Sqm	-	0.27	-
	(c) Light shade pigment in white cement or without pigment in white cement.	Sqm	-	0.20	0.052
	(d) Medium shade pigment with 50% white cement and 50% ordinary cement..	Sqm	-	0.24	0.026

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
36.	Crazy marble stone flooring including filling the gaps with cement marble chips mixture 3 : 1 by weight in the proportion of 4 : 7 (4 cement marble powder mix : 7 marble chips) by volume and under layer of 25mm thick cement concrete 1 : 2 and slurry etc. complete :			
	(a) With Irregular shaped crazy.	Sqm	-	0.24
	(b) With rectangular fine edged crazy.	Sqm	-	0.20
37.	Providing & fixing of pre-cast terrazo chequered or embossed / ironite toppings tiles over 20 mm thick bed of :			
	(a) Cement mortar 1 : 6	Sqm	-	0.12
	(b) Cement mortar 1 : 4	Sqm	-	0.17
38.	Providing & fixing of Kota, Modak flooring over 20mm thick base of lime mortar jointing with cement mortar 1:3.	Sqm	-	0.18
39.	Providing & fixing of Kota, polished stone laid on 12mm thick cement mortar 1 : 3 and jointing with neat cement slurry.	Sqm	-	0.15
40.	Marble stone flooring over 20 mm thick base jointed with white cement slurry etc. complete on (All marble slabs):			
	(a) Base lime mortar	Sqm	-	W0.02
	(b) Base cement mortar 1 : 4	Sqm	-	0.15
41.	Marble slabs in risers steps skirting dado wall of pillars on 12 mm thick cement mortar 1 : 3 jointed with white cement.	Sqm	-	0.13

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
Plaster :				
42.	Cement plaster 12 mm thick :			
	(a) Cement sand 1 : 3	Sqm	-	0.15
	(b) Cement sand 1 : 4	Sqm	-	0.11
	(c) Cement sand 1 : 6	Sqm	-	0.07
	(d) Cement sand 1 : 8	Sqm	-	0.05
43.	20 mm thick cement plaster :			
	(a) Cement sand 1 : 3 ratio.	Sqm	-	0.23
	(b) Cement sand 1 : 4 ratio.	Sqm	-	0.17
	(c) Cement sand 1 : 6 ratio.	Sqm	-	0.11
	(d) Cement sand 1 : 8 ratio.	Sqm	-	0.08
44.	25 mm thick cement plaster :			
	(a) Cement sand 1 : 3 ratio.	Sqm	-	0.28
	(b) Cement sand 1 : 4 ratio.	Sqm	-	0.21
	(c) Cement sand 1 : 6 ratio.	Sqm	-	0.14
	(d) Cement sand 1 : 8 ratio.	Sqm	-	0.10
45.	Cement lime plaster 1 : 1 : 6 ratio :			
	(a) 25 mm thick	Sqm	-	0.14
	(b) 20 mm thick	Sqm	-	0.12
	(c) 12 mm thick	Sqm	-	0.07
46.	Cement lime plaster 1 : 2 : 9 ratio :			
	(a) 25 mm thick	Sqm	-	0.10
	(b) 20 mm thick	Sqm	-	0.08
	(c) 12 mm thick	Sqm	-	0.05

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
47.	6 mm cement plaster to ceiling:			
	(a) Cement sand 1 : 3 ratio.	Sqm	-	0.08
	(b) Cement sand 1 : 4 ratio.	Sqm	-	0.06
	(c) Cement sand 1 : 6 ratio.	Sqm	-	0.04
48.	Neat cement punning.	Sqm	-	0.04
49.	Fine finishing coat of cement sandla	Sqm	-	0.04
50.	Providing on stone masonry in cement mortar 1 : 3 :			
	(a) Flush or ruled or sunk of weather proof pointing.	Sqm	-	0.024
	(b) Raised and cut pointing	Sqm	-	0.04
51.	Pointing on brick or tile work in cement mortar 1 : 3 :			
	(b) Raised and cut pointing	Sqm	-	0.033
52.	Coursed Rubble masonry in cement mortar 1 : 6 in super structure.	Cum	-	1.50
53.	Plain Ashlar masonry in super structure in cement mortar 1 : 6 including pointing with cement mortar 1 : 2.	Cum	-	1.08
54.	Providing & fixing horizontal chhajja of stone in cement mortar 1 : 4 including pointing in cement mortar 1 : 2.	Sqm	-	0.10
55.	Providing & fixing EZ-7 frame embedded in cement concrete block 15 x 10 x 10 cm. size of 1 : 3 : 6.	Quintal	-	0.22

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
56.	Providing and fixing M.S. ring for fastening ropes of chick.	100 Nos.	-	0.10
57.	Fixing chowkhats in opening including embedding chowkhats in floor, cutting masonry for hold fasts embedded in C.C. 1 : 3 : 6 and making good the wall :			
	(a) Door chowkhats.	Each	-	0.24
	(b) Window chowkhats.	Each	-	0.12
	(c) Clear storey window.	Each	-	0.66
58.	Providing and fixing M.S. fan clamp in existing R.C.C. slab including cutting and making good.	Each	-	0.03
59.	Replacing sand stone slabs in roof laid in cement mortar 1 : 4 including necessary repairs and cement pointing.	Sqm	-	0.01
SANITARY :				
60.	Fixing of water closets (all type) along with flushing cisterns and brackets, telescopic flush pipe of bend with fittings and clamps, overflow pipes complete including cutting making walls and floors good.	Each	-	0.10
61.	Urinal basin with automatic flushing cistern.	Each	-	0.05
62.	Range of two urinals with one automatic flushing cistern.	Each	-	0.08
63.	Range of three urinals with one automatic flushing cistern.	Each	-	0.13
64.	Range of four urinals with one automatic flushing cistern.	Each	-	0.19

S. No.	Description of Item	Unit	Requirement of Cement Cum	Bags of 50 Kg.
65.	Fixing long Pan pattern or Orissa pattern W.C. pan.	Each	-	0.05
66.	Fixing a pair of white glazed earthen ware or vitreous china foot rest.	Each	-	0.10
67.	Fixing flat back or wall corner tube lipped front urinal basin.	Each	-	0.02
68.	Fixing laboratory basin with brackets, pillar taps etc., cutting and making wall good.	Each	-	0.05
69.	Fixing sink with brackets including cutting and making good the wall.	Each	-	0.05
70.	Fixing wash basin.	Each	-	0.03
71.	Fixing M.S. holder bat clamps or M.S. stays and clamps.	Each	-	0.005
72.	Fixing sand cast iron trap.	Each	-	0.025
73.	Providing and fixing wall face C.I. pipes including filling the jointing with spun yarn soaked neat cement slurry and cement mortar 1 : 2 .	100 Mtr.	-	0.17
74.	Providing and fixing on wall face C.I. assessories for rain water pipe fittings, the joints with spun yarn soaked in neat cement slurry and cement mortar 1 : 2 :			
	(a) 75 mm dia.	Each	-	0.005
	(b) 100 mm dia.	Each	-	0.006
	(c) 150 mm dia.	Each	-	0.01

Unit Weight of Aluminium Sections

S. No.	Size of Aluminium Section		Unit Weight
Doors & Partitions			
1.	101.60 X 44.45 X 2.00 MM 63 X 38 X 2.0 MM 44.45 X 44.45 X 2.0 MM	83.50 X 44.45 X 2.0 MM 150.0 X 44.45 X 2.0 MM	1.64 Kg/M ± 5 %
2.			
3.			
4.			
5.			
Snap Beading			
1.	16.6 X 18.2 X 1.0 MM		
Sliding Windows			
1.	62.0 X 30.0 X 1.6 MM	62.0 X 30	
2.			
3.			
4.			
5.			
6.			
Hollow Sections			
Z inner			
Z outer			
Mullion			

ANNEXURE - A

The following fittings shall be provided in Door's and Window's shutters :

S. No.	Particulars	Number of Fittings
(A) Single Leaf Door Shutters		
(i)	Hinges of Size 100mm	3 Nos.
(ii)	Sliding Bolt one No. of length of 300mm of 12mm dia upto 35mm thick shutters and 16mm dia and 300m. length for above 35mm thick shutters	1 No.
(iii)	Handles 150mm	2 Nos.
(iv)	Tower Bolts 300mm	1 No.
(v)	Tower Bolts 150mm	1 No.
(vi)	Door Stopper	1 No.
(vii)	Back Stopper	1 No.
(B) Double Leaf Door Shutters		
(i)	Hinges of Size 100mm	6 Nos.
(ii)	Sliding Bolt one No. of 350mm long 16mm dia	1 No.
(iii)	Handles 150mm	3 Nos.
(iv)	Tower Bolts 300mm	2 Nos.
(v)	Tower Bolts 150mm	2 Nos.
(vi)	Door Stopper	2 Nos.
(vii)	Back Stopper	2 Nos.
(C) Window shutters in each leaf		
(i)	Hinges of Size 100mm	2 Nos.
(ii)	Handles 125mm	1 No.
(iii)	Tower Bolts 150mm	2 Nos.
(iv)	Door Stopper	1 No.

परिशिष्ट - ४

कार्यालय नुस्खा / राजनीतिक निर्माण विभाग, राजधानी, जयपुर
क्रमांक नं. ५१/एस ई. (वि. ३) / दि. ५६०५

दि. ५६०५

परिपत्र

२।

लिखते हैं— राजकीय भवनों में वर्षा जल नुस्खा का लागतना।

वर्षा के पानी द्वारा भू-गर्भ जलस्तर बढ़ाने के उद्देश्य से नियंत्रित दिया जाता है तो इस विभाग के अनुसार उम्मीद वाले गवर्नर अथवा इससे बड़े भूखण्डों पर नियंत्रण कर्याये जा सके। अब इस वर्षा के वर्षों के पानी द्वारा भू-गर्भ का जलस्तर इन्हें छेत्र नियंत्रण किया जायेगा।

(१) वर्षावान में प्रस्तावित/नियंत्रणधीन ५०० वर्ग मीटर से १००० वर्ग मीटर तक के भूखण्डों में वर्षा के पानी को इकट्ठा करने के लिए १००० एकड़ी भूमि के दो पक्के गिरजाहों का नियंत्रण किया जायेगा। यहाँ गवर्नर को थोलार्ड इन्डोनेशियन इलास्ट जै अस अवैश्वान व इस सर्व औड़े को आली छाराई भागों। यहाँ पर्यावरण की तुलसे नदियों को जोड़ा जायेगा। जिसे गार्ड में १५ मीटर गहरे ६' व्यास वाले थोल वहाँ से जोड़ा जायेगा जिसमें छिपों द्वालों के सिय पाइप लगा होगा। ऐसे दो थोलवेल आपका में २ मीटर की दूरी पर खोड़े जायेगा। इसी प्रकार से १००० वर्ग मीटर के चौड़े स्टोर्म पर उपरांत गार्ड प्रति ५०० वर्ग मीटर क्षेत्रफल के अनुपात विधिवास प्रदान किये जायेंगे। उसके बाद इन्हाँ वर्षा के बारे वेल में पहुँचो कर जहाँ विभाग की व्यवस्था जी जा सके।

इस नुस्खे से बड़े भूखण्ड में सक्षम अधिकारी द्वारा तथा दिये अनुसार वर्षा के पानी को इकट्ठा करने के लिए भूमिगत एक वा एक से अधिक ईकड़ी भूमि द्वारा यहाँ जुन विभाग द्वारा वार्षिक भूमि को दिया जायेगा।

(२) वर्षावान भवनों में जो कि ६०० वर्ग मीटर से बड़े भूखण्डों पर नियंत्रित हैं, पुनर्वर्णन की आवश्यकता एक नुस्खे विभाग वाला वार की जायेगा। सभी वहाँ बड़े होम वर स्थित वर्षा वर्षों को इस कार्ये द्वारा तुना जायेगा।

विभाग के सभी अधिकारियों द्वारा अधिकारी/अधीक्षण अधिकारी/अधिकारी अधिकारी वह नुस्खे के द्वारा इस व्यवस्था के लिए उपरित प्रावधान करते हुए इसीली नियंत्रित भवनों के पालना की जायेगी।

क्रमांक नं. ५१/एस ई. (वि. ३) / दि. ५६०५

नामांकित गार्ड अम्भुकर्षण वार्षिक वर्षा कर्तव्याली द्वारा प्रेषित है—

१. नियंत्रित समियों वाली भू-गर्भ भूमि वर्षा, राज., जयपुर।
२. प्रमुख राजन राजिय समिति, राज., जयपुर।
३. अधिकारी भूमि अधिकारी, समिति, राज. (समस्त)
४. अधीक्षण अधिकारी, समिति, राज. (समस्त)
५. अधीक्षण अधिकारी, समिति, राज. (समस्त)
६. नियंत्रित भूमि अधिकारी (विधि), राजनीति विभाग/सभाकारी अधिकारी अधिकारी व अधिकारी अधिकारी (विधि विभाग कार्यालय)।

Signature
(संचालक नाम) ५६०५/६/२०२५

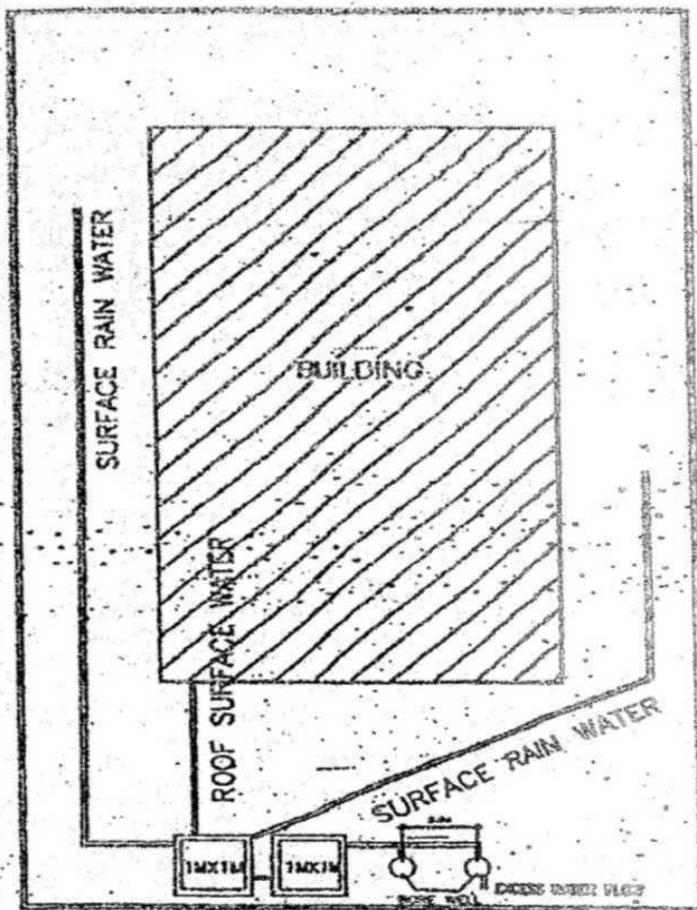
सुखदेव लक्ष्मिनाथ,
सार्वजनिक नियंत्रण विभाग,
राजधानी, जयपुर।

दि. ५६०५

Signature
(संचालक नाम) ५६०५/६/२०२५
सुखदेव लक्ष्मिनाथ,
सार्वजनिक नियंत्रण विभाग,
राजधानी, जयपुर।

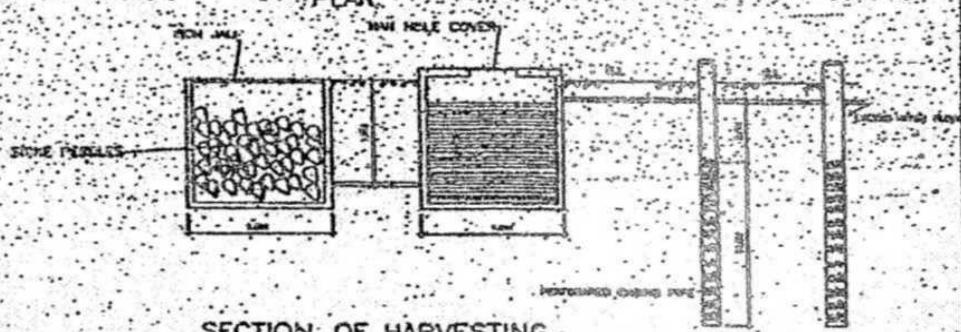
22

ARRANGEMENT FOR RAIN WATER HARVESTING IN PUBLIC BUILDING



R.O.A.D.

PLAN



SECTION OF HARVESTING

SKETCH IS NOT TO THE SCALE

Singh
EXECUTIVE ENGINEER (BUILDING CELL)
PUBLIC WORKS DEPARTMENT

परिशिष्ट-७

— Work Safety Alert — (S)

OFFICE OF THE CHIEF ENGINEER, P.W.D. RAJASTHAN, JAIPUR

No. CE/PWD/SE(P&M)/Circular/D- 170

Dated:- 29-5-2006

CIRCULAR NO. 1 / 2006Safety in Excavation work in Buildings.

It has been observed that proper precautionary measures are not being adopted for safety at the time of excavation of foundation for the buildings which results in loss of lives and money.

For proper safety, the work should be get executed keeping in view, the provisions contained in National Building Code of India 2005 and relevant IS codes to avoid any mishappening. Specific care should be given on the following points as given in the various Codes as under:-

1. National Building Code of India 2005

- Type of Strata:- Adequate precautions depending on the type of strata met with during excavation (like quick sand, loose fills and loose boulders) shall be taken to protect the workmen during excavation.
- Overhang and Slopes:- During any excavation, sufficient slopes to excavated sides by way of provision of steps or gradual slopes shall be provided to ensure the safety of men and machine working in the area.
- Fencing and Warning Signals:- Where excavation is going on, for the safety of public and the workmen, fencing shall be erected, if there is likelihood of the public including cattle frequenting the area. Sufficient number of notice boards and danger sign lights shall be provided in the area to avoid any member of public from inadvertently falling into the excavation.
- Vibrations from nearby sources:- Vibration due to adjacent machinery, vehicles, rail-roads, blasting, piling and other sources require additional precautions to be taken.

2. Handbook on Construction Safety Practices (SP 70 : 2001)

- Minimum check and clear edge of trench:- There is a tendency to dump the excavated material just on the edge of the trench where excavation is done manually. The material may slide back into the trench or apply additional load on shoring. A provision of clear berm of a width not less than one-third of the final depth of excavation is recommended. In areas where this width of the berm is not feasible, the reduced berm width of not less than 1 m. should be provided.
- Plant and Machinery:- The excavating equipment should be parked at a distance of not less than the depth of the trench, or atleast 6 m. away from excavated sides for trenches deeper than 6 m.

3. Excavation work-Code of Safety (IS 3764 : 1992)

- Shoring and Timbering- All trenches in soil more than 1.5 meter deep shall be securely shored and timbered.

These instructions should be followed strictly, otherwise concerned officer will be responsible for the consequences.

G. Jaiswal

Chief Engineer & Addl. Secretary
PWD, Rajasthan, Jaipur.

Dated:- 29-5-06

No. CE/PWD/SE(P&M)/Circular/D- 170

Copy forwarded to the following for information and necessary action Please:-

- P.S. to Hon'ble PWD Minister, Govt. of Rajasthan, Jaipur.
- The Principal Secretary to Govt. PWD Rajasthan, Jaipur.
- Addl. Chief Engineer PWD Zone.....(All)
- Superintending Engineer, PWD Circle, (All)
- Executive Engineer, PWD Dn.....(All)
- Sr. P.A. to CE/CE(R)/CE(NH)/All SE's & EE's in CE's Office, PWD, Jaipur.

G. Jaiswal

GOVT. OF RAJASTHAN,
PUBLIC WORKS DEPARTMENT

No. C.S./SE(DP)/D-1932. Dated 26.1.97
7-2-97.

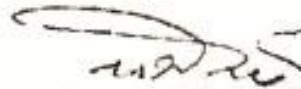
CIRCULAR

Chief Engineer, PWD had issued circular No. CE/Sec.XI/D-2077 dated 01-03-1995 with respect to the amendment issued in GF&AR Part-III item No. 5 (Part-II- Contingent & Misc. expenditure) wherein fair rent was revised up to 9% of the cost of building (including land) as reasonable rent. Previously fair rent was up to 7.5% of the cost of building (including land) for private building hired by Govt. and 10% for Govt. Buildings given on hire to private parties as per para 24-1-7 (6) of PWD Manual. The matter regarding fixing of rent / assessment in respect of Govt. building hired to private parties was discussed at length in the Public Accounts Committee Meeting and it was decided to refer the matter to Finance Department.

The Finance Department considered the whole case and opined "PWD is competent to decide on Govt. buildings rented out to private persons and the rent revision circular did not apply to Govt. buildings rented out to private persons. If it has been revised, the PWD needs to review at its own level."

In view of the opinion given by the Finance Department, it is hereby clarified that the fair rent for the Govt. buildings rented out to private persons, autonomous bodies, other local bodies and other non Rajasthan Government Departments shall remain as 10% of the cost of building (including land). However for the private buildings hired by Govt. fair rent shall be 9% of the cost of building (including land).

This is being issued in supersession of previous orders issued in this behalf.



(C.S. Rajan)
DEPUTY SECRETARY (GEN.)
PWD, RAJASTHAN

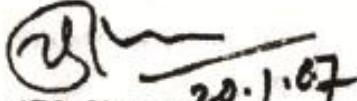
27

8/2

No. CE/SC (Bn) /D-1932, Dated 20-1-67,

Copy forwarded to the following for information and necessary action:

1. P.S. to Hon'ble Minister, PWD, Rajasthan, Jaipur
2. Secy. Finance - I, Govt. of Rajasthan, Jaipur
3. Chief Engineer, PWD, Rajasthan, Jaipur.
4. Chief Engineer (NH), PWD, Rajasthan, Jaipur
5. Chief Engineer (Roads), PWD, Rajasthan, Jaipur
6. Addl. Chief Engineer, PWD, Zone - I, Jaipur/ II, Jaipur/ Ajmer/ Bikaner/ Kota/ Jodhpur/ Udaipur.


(C.L. Verma) 20.1.67
DY. SECY. (WORKS)
PWD, RAJASTHAN.



OFFICE OF THE CHIEF ENGINEER (BUILDING), P.W.D, RAJASTHAN, JAIPUR

No. F-63(30)/ Sec II/ 08-09/ 1023

Date.23/09/08
29CIRCULAR

The Government of Rajasthan (Energy Department) has issued a Notification vide NO:F.20 (6) Energy/98 Jaipur, dated: 07.11.2007 in exercising the power conferred by section 18 of the Energy conservation act 2001(central Act NO.52 of 2001)

(A) The Notification has made mandatory use of Energy efficient Lamps (T-5) and CFL lamps .As per this notification:

- (1) Incandescent lamps & fluorescent lights with conventional Chokes shall not to be used in all new buildings constructed in government sector/ Government aided sector/ Boards and corporations/ autonomous bodies.
- (2) All such new buildings constructed in government sector/ Government aided sector/ Boards and corporations/ autonomous bodies shall use CFL lamps & Electronic chokes only.
- (3) All such new buildings constructed in government sector/ Government aided sector/ Boards and corporations/ autonomous bodies shall use Electronic ballast with multi tap arrangement / sensors and time controlled switching.

(B) Similarly this notification has made mandatory use of solar water heating system in all Government hospitals & hostels.

The provision / rates for the various electrifications works for the forecast estimate on the plinth area basis are already incorporated in Electrical BSR-2008 for PWD works, at page NO:210-213, table E-12.

In view of above notification it is directed that provisions for the internal wiring in Administrative / Residential / Hospital building be taken as under, with Internal wiring is to be done with copper conductor only.

1. Administrative / Residential buildings	12.5% of Building cost
2. Hostel and Hospital Buildings:	14.5% of Building cost

Separate provisions for rest of the electrical works shall be strictly as mentioned in Item No.32.7.2.2 of PWD manual like extra provision for the ceiling fans, lighting fixtures & fittings ,water heaters, hot & cold water system, , separate provision for the Electric mains (Connection) as elaborated in Electrical BSR-2008 for PWD works, at page NO:210-213, table E-12. As per government norms.

Received 23/09/08
CHIEF ENGINEER (Building)
PWD, RAJASTHAN, JAIPUR

No. F-63(30)/ Sec II/ 08-09/ 1023

Date:23/09/08

Copy submitted / forwarded to following for the information & necessary action:

- 1.The principal Secretary, PWD,Rajasthan,Jaipur.
- 2.The Secretary, PWD,Rajasthan,Jaipur.
- 3.The Chief Engineer & Add.Secretary, PWD, Rajasthan, Jaipur.
- 4.The Chief Engineer (Road-1)/Road-2/PMGSY, PWD, Rajasthan, Jaipur.
- 5.The Chief Architect,PWD, Rajasthan, Jaipur.
- 6.The Additional Chief Enginner, PWD, Zone..... (All)
- 7.The Superintending Engineer, PWD, (All)
- 8.The Executive Engineer, PWD, Division..... (All)

A/c

कार्यालय अर्थव्यापार विभाग सा. इन्डि. वृत्त शहर, जयपुर
क्रमांक ५८५ दिनांक ३.१०.०८

No. 3134

CE City Div-III/Cost Div/Dept Div for information & delivery action please

Received 23/09/08
CHIEF ENGINEER (Building)
PWD, RAJASTHAN, JAIPUR

Date 23/09/08

*मंदिराचा वास्तविकता एवं तकनीका घटावा
साठे दिनांक ३०.१०.०८ शहर कृत*

कार्यालय मुख्य अधिकारी, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर^{क्रमांक: ४५/३८/१०७०५/१०-१३५}
दिनांक: ०५.०७.२०१२

प्रतिप्रिवरा गुणां अभियोगः

सार्वजनिक निर्माण विभाग

संस्कृत-इंग्लिश (संस्कृत)।

आधीक्षण्य आभियंता

आसंजालिका चिरणि पिंडाग

वृष्टि— (सिंहरडी) ।

विषय- भाष्यक लिखने का सो कर्त्तव्य अनुसारित तात्त्वों में और एक फाईटिंग सिस्टम का प्रयोग करने वाले।

संहीनय

जापको विदेश होम्या कि पैशानल विलिंग कोड 2005 को विभिन्न मर्दार्थी के सकार में फायदे कार्यालय विस्तर का प्राप्तन किये जाने का जननी प्राप्तन है। इसके संबंध में चुनौती ने विभिन्न होने वाले राजस्वीय भवनों में वायर वायरिंग विशेष उपायों जूने का अधिक प्रयोग किया है जो-कि एक गम्भीर चुनौती है जिससे आगे लाने की विधि से जानल जान को छोड़ी य शयकीय स्थापित की जी नकारात्मक होता। वर्तमान वायर में ऐसी ही "आग" लगाने की घटनाएँ प्रतिव दुखी डे जिसमे मारी जान खात की विधि होती है। अधिक ये इस प्रकार की घटनाओं की मुद्रणावाटि न हो तथा यदियो रखत दस प्रकार से बहुतज रहे, तो या बहुत बाजे स्थान पर दुखी उचित राजस्वान जपानुर के रक्त वार उचित स्वरूप रामीयों की भवी एवं धूम विभिन्न रूपों के भवी भवित्व में वायर विभिन्न त्रूप सुन राजस्वीय भवनों के अनुभानित वायरोंने उत्तीकृष्ण हैं। सामाजिक विभाग यों एवं व्यापक स्वरूप से यह दुखी पैशान विलिंग कोड 2005 के उपर्योगी व्यवन यों के केटेगोरी अनुकूल जायां काइटिंग सिस्टम/फायर एलां विशेष/एसीनास/इलेक्ट्रोविक्स का प्रयोगन किया जाना आवश्यक है।

लाते आप जास्ती की लिंदेशित किया जाता है कि कि विद्युती भी विभाग द्वारा भवन-नियोग कर्मसूल हैं बहिर्भूत अनुमानित चालकीने में नेशनल बिलिंग कोड 2005 के प्राविधिक प्रावधानों अनुसूले फाईर फाईटिंग सिस्टम की अनुमानित लागत का प्रावधान अंदरसे जोड़ते हुए ही प्रत्युत्त प्रक्रम है। यदि विद्युती लारे मर इसमें घुक रहती है तो उस हृष्ट सर्वोच्चता अधिकारी व्यक्तित्व उत्तरदायी रहती।

संवादीय

(हजारी लाल मौणा)
मुख्य अभियंता एवं अतिथि सचिव,
सार्वनिष्ठि, रेजिस्ट्रान जयपुर।

0551-21
17 7 12

~~Copy forwarded to SECY I.A. III
Count 2 Debris & N for 2.~~

१५७६
३१/१२ योगिशासी समितिका, एवं
नेपाली अदायक, सिरा ३०-३०
पहुँच प्रति वर्षपुर

प्रतिलिपि अद्वीक्षण अभियंता दृढ़ शाहर ज्येष्ठर | श्रीनार |
सुस्तुन् लो डशवशाक कार्यक्रमी हनु प्रेसित है।

~~Siap~~ di zone, Jeput.

BS (10) 26

OFFICE OF CHIEF ENGINEER & ADDITIONAL SECRETARY PWD RAJASTHAN JAIPUR

No. F.(184)SE(Belgs)(Circular)-208 Date: 04-06-13

CIRCULAR

Sub:-Adoption of green building measures in new buildings under construction.

In the above cited subject it is worthwhile here to mention that demand of electricity and water is increasing exponentially especially in building sector. Our natural resources are depleting day by day and a huge gap between demand and supply has been created. It has become the need of the hour to conserve our natural resources. Since public works department is responsible for construction of government residential and non residential buildings, it is essential to adopt green building measures by architects, civil and electrical engineers and hence pave the way to sustainable development.

It is enjoined upon the departmental architects to design building having least requirement of artificial lighting and orient them to minimize entrance of solar heat inside. Design of openings and shading of windows etc is to be given special attention to make the building green. Wall thickness in south-west side be taken to increase thermal resistance and landscaping/fountain/ponds be included in a direction to pre-cool the air entering the building. Double glazed glass windows of superior quality be suggested as per requirement of the buildings.

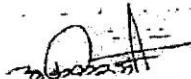
Responsibility of civil engineers in this field starts right from the beginning while planning and estimation. Civil engineers are supposed to assist in selection of site keeping in view availability of natural resources like water, material in construction should be taken which requires least transportation; trees and greenery must be saved as far as possible. Harm to local ecosystem should be minimized. Wastage shall be kept to a minimum and must be re-used. Provision in the building estimate for energy efficient fixtures must be taken in consultation with electrical engineers.

66 1/2

Recycle of waste water for gardening etc be designed and it is a must to provide water harvesting structures and plantation in new buildings.

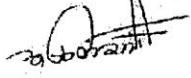
As per present scenario, role of electrical engineers to make the building green is very important. Energy efficient CFL/LED fixtures star rated fans, air-conditioners, refrigerators, pumps and transformers shall be taken in the estimate. High COP chillers, primary and secondary pumping for central air conditioning, VFD in AHU Provision for solar water heating system and solar lights for campus lighting. solar electric panels and Earth Air Tunnel (EAT) cooling system shall be essentially incorporated in forecast estimates for new buildings proposed for construction in future.

It is hereby directed all concerned to adopt green building measures in buildings to be constructed by the department and follow Energy Conservation Building Directives-2011 issued by state government.


Chief Engineer & Addl. Secretary
PWD, Rajasthan, Jaipur

No. f. (184) SE(Beds) / circulated D-208 Date: 04-06-13
Copy to the following for information and necessary action:-

1. P.S. to Pr. Secretary, PWD Rajasthan, Jaipur
2. P.S. to Secretary, PWD Rajasthan, Jaipur.
3. PS to Chief Engineer NH/SS/Roads/PMGSY, PWD, Rajasthan, Jaipur.
4. Chief Architect PWD Rajasthan, Jaipur
5. Addl. Chief Engineer PWD Zone (All)
6. Superintending Engineer PWD Circle (All)
7. Executive Engineer PWD Division(All)


Chief Engineer & Addl. Secretary
PWD, Rajasthan, Jaipur

Government of Rajasthan
Public Works Department

No. F14(47)PWD/2013

Jaipur, Dated :

ORDER

2013

Clarifications are being sought from time to time regarding demolition/removal of buildings declared un-safe. In this regard provisions already exist under Central Government Act section 133-142 in the code of criminal procedure of 1973 and also in the Disaster Management Act, 2005 section-34 (K). As per these provisions District Magistrate can order for removal/demolition of unsafe buildings.

Further as per provision in PWD manual Chapter 24.3 and item No. 79 of SOP the Chief Engineer PWD is competent to issue permission for demolition of unsafe building up to book value of Rs. 50,000/-.

In view of the above provisions it is clarified that District Collector is authorized to order to demolition of unsafe Government buildings after obtaining report from the Superintending Engineer PWD of the District.

A committee is hereby constituted to execute the order of the Collector of the district:-

- 1- Representative of the concerned District Collector
- 2- Concerned SE/EE PWD
- 3- District level officer of the concerned Department.

Expenditure for demolition will be born by the concerned department.

By order,

Rajiv
(Sanwar Mal Verma)
Joint Secretary to Govt.

Copy to the following for information and necessary action-

1. SA to Hon'ble Public Works Minister, Raj. Jaipur.
2. SA to Hon'ble State Minister, Public Works Department, Raj. Jaipur.
3. PS to Pr. Secretary to Govt. PWD
4. PS to Secretary to Govt. PWD
5. District Collector.... (All)
6. Chief Engineer, PWD ... (All)
7. SE PWD Circle....(All)

CCS
Joint Secretary to Govt.

ED-2 (G) *SE (B)*
RA-3

कार्यालय मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर
क्रमांक:- एस.ई.(भवन) / अ.अ.-III / सीएमपीटीशन / 16-17 / डी-२५४ दिनांक:- 28.06.16

-: परिपत्र :-

सामाजिक न्याय और अधिकारिता मंत्रालय, विकलांग जन सशक्तिकरण विभाग, भारत सरकार के सुगम्य भारत अभियान के तहत महत्वपूर्ण सार्वजनिक भवनों को सुगम्य बनाने हेतु राज्य सरकार से अनुरोध किया है।

एक सुगम्य सरकारी भवन वह होता है, जहाँ एक विशेष योग्य व्यक्ति बिना किसी बाधा के इसमें प्रवेश कर सकें एवं इसमें उपलब्ध सुविधाओं का इस्तेमाल कर सकें। इसमें निम्नलिखित निर्मित वातावरण शामिल हैं - सेवाएँ, सीढ़ियाँ तथा रैम्प्स, प्रवेश, आकस्मिक निकास, पार्किंग के साथ साथ लाईटिंग, साईनेज, अलार्म सिस्टम तथा प्रसाधन जैसी आंतरिक तथा बाह्य सुविधाएँ।

सुगम्यता के मानक, आई.एस.ओ. की तरह, स्थानीय परिप्रेक्ष्य को देखते हुए अन्तराष्ट्रीय मानकों के अनुरूप होने चाहिए। निर्मित वातावरण के संबंध में आई.एस.ओ. 21542:2011 भवन निर्माण-सुगम्यता और निर्मित वातावरण का प्रयोग, आवश्यकताओं की एकरूपरेखा प्रस्तुत करना और निर्माण, बनाने, घटकों तथा फिटिंग्स के बारे में सिफारिशें।

अतः भविष्य में बनने वाले महत्वपूर्ण सरकारी भवनों को सुगम्य बनाने के प्रावधान तकमीने में आवश्यक रूप से जोड़े तथा निर्माण करवायें जिससे भवन को सुगम्य बनाया जा सके एवं विशेष योग्य जन इन भवनों का इस्तेमाल कर सकें।

(जी. एल. राव) २५-६-१६
मुख्य अभियंता एवं अतिरिक्त सचिव,
सा.नि.वि., राजस्थान, जयपुर

क्रमांक:- एस.ई.(भवन) / अ.अ.-III / सीएमपीटीशन / 16-17 / डी-२५४ दिनांक:- 28.06.16

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. निजी सचिव, अतिरिक्त मुख्य सचिव, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर।
2. निजी सचिव, शासन सचिव, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर।
3. निदेशक, विशेष योग्य जन विभाग, राजस्थान, जयपुर।
4. मुख्य अभियंता, सार्वजनिक निर्माण विभाग, (समस्त)।
5. मुख्य वास्तुविद्, सार्वजनिक निर्माण विभाग, (समस्त)।
6. अतिरिक्त मुख्य अभियंता, सा.नि.वि., संभाग (समस्त)।
7. अधीक्षण अभियंता, सा.नि.वि., वृत्त (समस्त)।
8. अधिशासी अभियंता, सा.नि.वि., खण्ड (समस्त)।

७. सिस्टम एनालिस्ट वेबसाईट पर अपलोड करने हेतु

(मुकेश चन्द्र भाटी) २५/६/१६
अधीक्षण अभियंता(भवन),
सा.नि.वि., राजस्थान, जयपुर

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Government of Rajasthan
Public Works Department

No. CE&AS/TA-I/D&T/2017/139

Date: 09.11.2017

Circular**(Building Safety Certificate)**

Building Safety Certificate required for private buildings of public or semi public nature, shall henceforth be issued by PWD Rajasthan by complying the procedure and fees structure as described below.

A. Fee Structure

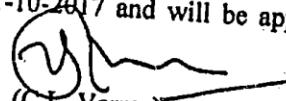
- | | | |
|---|---|------------|
| i. Primary & Secondary School Buildings | : | Rs. 3000/- |
| ii. Senior Secondary School & College Buildings | : | Rs. 6000/- |
| iii. Other Non Government Buildings | : | Rs. 5000/- |

B. Procedure

- For educational institutes (all type schools), Building Safety Certificate will be issued by Engineers of Education Department (RMSA & DPEP) in general. In case requisite RMSA & DPEP set up for issuance of Building Safety Certificate for school buildings is not available at some locations (to be certified by concerned District Education Officer), then Executive Engineer, PWD concerned division shall issue safety certificate on recommendation of D.E.O., concerned adopting the procedure and accepting prescribed fee.
- Applicant (owner of building) for school building shall submit application (Format 'A') and affidavit on Rs.50 stamp paper (Format 'B') along with two sets of documents (key plan, plan, elevation etc. drawings of building) to District Education Officer concerned, who after its scrutiny, will submit these to Executive Engineer, with recommendation of issuing safety certificate.
- The applicant will be required to submit the prescribed fees in the form of demand draft in favour of concerned Executive Engineer along with application
- Building shall be inspected by Assistant Engineer within 10 days from receipt of application in PWD Division Office and submit report/recommendation alongwith check list (Format 'C')
- Executive Engineer, PWD concerned division shall then issue the Building Safety Certificate for Educational Institute within 15 days in prescribed format 'D' to District Education Officer.

For other non government buildings, similar procedure of processing the application through concerned department's district level officer, shall be adopted for issuing Safety Certificate for that Building.

This bears the approval of Admn. Deptt., Public Works Department, Govt. of Rajasthan vide ID no. 6711/M/PWD/17 dated 31-10-2017 and will be applicable with immediate effect.



(C.L. Verma)
**Chief Engineer & Addl. Secretary
 PWD, Rajasthan Jaipur**

श्रीमान जिला शिक्षा अधिकारी
जिला.....

प्रपत्र-अ

विषय :- स्कूल भवन के सुरक्षा प्रमाण पत्र हेतु आवेदन।

1	नाम शिक्षण संस्था (email id सहित)	-
2	भवन मालिक का नाम	-
3	वर्ग (अनुदानित/निजी/द्रष्ट)	-
4	स्थिति (पता)	-
5	स्तर (महाविधालय/सी.उ.मा. /उ.मा./उ.प्रा./प्राथ. /शिशु/प्रशिक्षण संस्था)	-
6	विद्यार्थियों की अधिकतम संख्या (पिछले सत्र में)	-
7	भवन का निर्माण वर्ष	-
8	टॉयलेट की सैनेट्री व्यवस्था	-
9	पीने के पानी की व्यवस्था	-	शिक्षा विभाग के नियमानुसार हैं/ नहीं
10	खेल का मैदान इत्यादि	-	शिक्षा विभाग के नियमानुसार हैं/ नहीं, खेल मैदान का क्षेत्रफल.....वर्ग मीटर
11	20 मीटर दायरे में हाईटेंशन लाईन की स्थिति	-	हैं/ नहीं हैं
12	उक्त सभी वर्णित विशिष्टयों का मै वर्ष पर्यन्त संधारण करता रहूंगा तथा भवन को शिक्षण कार्य के अलावा किसी अन्य गतिविधि के लिए उपयोग में नहीं रहूँगा और ना ही ऐसा कोई कृत्य करूँगा जिससे भवन की संरचना को किसी भी प्रकार की क्षति हो।		
13	विद्यालय भवन की समस्त विद्युत फिटिंग में आईएसआई मार्का सामग्री का प्रयोग किया गया है।		

संलग्न :- रु. 50 के नॉन ज्यूडिशियल

स्टाम्प पर शापथ पत्र

ठस्ताक्षर भवन मालिक
(नाम एवं मोबाइल नं.)

दिनांक :-

क्रमांक :-

मूल प्रार्थना पत्र अधिशासी अभियन्ता, सा.नि.पि., खण्ड.....को प्रेषित कर लेख है कि
उक्त स्कूल ".....(स्कूल का नाम)" के भवन का निरीक्षण
शिक्षा विभाग के प्रतिनिधि द्वारा कर लिया गया है, तथा प्रमाणित किया जाता है कि उपरोक्त भवन
राज्य सरकार द्वारा स्कूल संचालन के लिए निर्धारित मापदण्डों के अनुरूप निर्मित है, तथा.....
(विद्यार्थियों की अधिकतम संख्या) विद्यार्थियों के संचालन के लिए उपयुक्त है। अतः
उक्त भवन का सुरक्षा प्रमाण पत्र जारी करने हेतु अनुशंसा की जाती है।

जिला शिक्षा अधिकारी
(नाम एवं रबड़ स्टाम्प)

9/2

शपथ पत्र (50 रुपये के नॉन ज्युडिशियल स्टाप पर देना है प्रपत्र-ब)
(प्रपत्र-अ के साथ संलग्न किया जावे)

मे..... पुत्र श्री आयु निवासी
 वयान करता हूं कि :- शपथ पूर्वक

- 1 स्कूल का नाम व पता..... सत्र मे बनाया गया है।
- 2 स्कूल भवन की भूमि का खुले क्षेत्र सहित कुल क्षेत्रफल.....वर्ग मीटर है, एवं इस पर भवन निर्माण जयपुर विकास प्राधिकरण/नगर परिषद/नगर पालिका.....से अनुमोदित मानचित्र के अनुरूप है।
- 3 यह कि भवन पक्का बना हुआ है, जिसकी नींव की गहराई.....फुट एवं चौड़ाई.....फुट है, भवन मे आरसीसी/पट्टी की छत है।
- 4 यह कि भवन बनाने मे 1:6 / 1:4 की सीमेन्ट मसाला, पत्थर व ईंट की चुनाई में काम मे ली है।
- 5 सीढ़ियों की चौड़ाई.....फुट है, तथा रेलिंग लगी हुई है। भवन निर्माण मे प्रयोग मे ली गई सामग्री की गुणवत्ताव अनुपात मानक अनुसार हैं।
- 6 भवन निर्माण अनुभवी व प्रशिक्षित व्यक्तियों द्वारा संरचनात्मक विशिष्टियों के अनुसार करवाया गया है।
- 7 भवन संरचनात्मक रूप से पूर्णतः सुरक्षित है एवं किसी भी प्रकार के संरचनात्मक दोष के कारण हुई दुर्घटना के लिये मैं पूर्ण रूप से जिम्मेदार हूं।
- 8 स्कूल परिसर के दायरे मे.....मीटर की दूरी मे किसी भी प्रकार की विद्युत हाई टेंशन लाइन नहीं है।
- 9 स्कूल / कॉलेज परिसर मे कही भी मोबाइल टावर नहीं लगा हुआ है।
- 10 इस भवन के प्रांगण मे बिना सार्वजनिक निर्माण विभाग की दूर्वाचुनिति के किसी भी प्रकार का निर्माण/परिवर्तन/परिवर्धन कार्य नहीं करेंगा।
- 11 किसी भी स्थिति मे स्कूल भवन व प्रांगण का उपयोग स्कूल की नियमित गतिविधियों के अलावा नहीं करेंगा।
- 12 स्कूल भवन शिक्षा विभाग द्वारा जारी दिशा निर्देशों के अनुरूप निर्मित किया गया है, तथा यह निर्धारित मानको की आपूर्ति करता है।
- 13 स्कूल भवन मे कोई भी कक्षा अस्थायी कक्ष (टिनशैड) मे संचालित नहीं है।
- 14 मकान मालिक द्वारा हस्ताक्षरित नक्शा संलग्न है।
- 15 भवन स्कूल संचालन के लिए नियमानुसार पूर्णत निर्मित है।

जयपुर

दिनांक

शपथग्रहिता

सत्यापन

मै उपरोक्त शपथग्रहिता सत्यापित करता हूं कि उपरोक्त शपथपत्र मे वर्णित तथ्य सही है, कोई भी तथ्य छिपाया नहीं है, ईश्वर साक्षी है।

जयपुर

दिनांक

सत्यापनकर्ता

चैक लिस्ट :- स्कूल भवन के सुरक्षा प्रमाण पत्र हेतु कनिष्ठ अभियन्ता/सहायक अभियन्ता द्वारा प्रपत्र-स	
1 भवन का प्रकार	- आर.सी.सी. पिलर पर निर्मित/भार वाहक दिवारों पर निर्मित
2 छत की प्रकार /स्थिति	- आर.सी.सी. की छत/पट्टियों की छत, सुदृढ़/सामान्य/कमज़ोर
3 दीवारों का प्रकार/स्थिति	- पत्थर की चिनाई/ईंट की चिनाई, सुदृढ़/सामान्य/कमज़ोर
4 फर्श का प्रकार/ स्थिति	- सीमेंट का/विट्रीफाईड टाईल का/सी.सी. टाईल का/कच्चा/..... सुदृढ़/सामान्य/कमज़ोर
5 दरवाजों का प्रकार / स्थिति	- लकड़ी के/लोहे के/..... सुदृढ़/सामान्य/कमज़ोर
6 खिड़कियों का प्रकार / स्थिति	- लकड़ी के/लोहे के/..... सुदृढ़/सामान्य/कमज़ोर
7 प्लास्टर का प्रकार/स्थिति	- सीमेंट का/चूने का/..... सुदृढ़/सामान्य/कमज़ोर
8 विद्युत व्यवस्था का प्रकार/ स्थिति	- कन्डयूट वायरिंग/प्लास्टर में दबी हुई वायरिंग/सतह पर की हुई वायरिंग/..... सुदृढ़/सामान्य/कमज़ोर
9 20 मीटर दायरे मे हाईटेशन लाईन की स्थिति	- हैं/नहीं हैं
10 अन्य विशेष तथ्य	-

नाम मय हस्ताक्षर
कनिष्ठ अभियन्ता/सहायक अभियन्ता

चैक लिस्ट अधिशासी अभियन्ता, सा.नि.वि., खण्ड को अग्रिम कार्यवाही हेतु प्रेषित है। अतः उक्त भवन का सुरक्षा प्रमाण पत्र जारी करने हेतु अनुशंशा की जाती है।

नाम मय हस्ताक्षर
कनिष्ठ अभियन्ता/सहायक अभियन्ता
(कार्यालय मोहर)

मपत्र-D

OFFICE OF THE EXECUTIVE ENGINEER, PWD DN.....

No:-.....

Date :-.....

The District Education Officer
.....
.....

Subject:- Regarding Safety Certificate of Educational Institute
.....

- Ref.-:** 1. Your office letter no.....dated.....
2. Ref. of depositing fee : No.dated.....for Rs.....

Sir,

It is to inform that above building has been inspected by Assistant Engineer PWD Sub on dated..... . On the basis of formal recommended by you & affidavit furnished by owner, it is to certify that this Building is safe for school activities.

This Certificate is valid for a period 1 (one) Year i.e. only up to.....(date) subject to regular upkeep and satisfactory Annual maintenance by school owner.

Note: This certificate will stand void automatically, if the building is used for any other purpose other than the school activities at any time during the year.

Your's faithfully

**Executive Engineer,
PWD Dn.....,**

No: -

Date: -

Copy to the Assistant Engineer PWD Sub Div..... with reference to your letter No. dated

**Executive Engineer,
PWD Dn.....,**



**Government of Rajasthan
Public Works Department**

No. CE&AS/TA-I/D&T/2017/17/

Date: 31/01/18

Circular

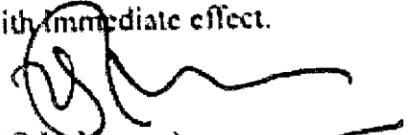
(Forecast Estimate for Govt. Buildings)

Forecast Estimates for various building works required by government departments shall henceforth be submitted by PWD Rajasthan by complying the facts and competencies of Engineer (Civil & Electrical) as described below.

S.N	Competent Authority (Civil/ Electrical)	New Building		Addition/Alteration/Repair Works to Buildings			
		(Residential/Non Resi.) (Rs. in lakhs)		Residential (Rs. in lakhs)		Non-Residential (Rs.in lakhs)	
		Existing	Revised	Existing	Revised	Existing	Revised
1	Executive Engineer	20.00	30.00	1.00	2.50	5.00	10.00
2	Supdt. Engineer	30.00	150.00	2.00	10.00	7.00	25.00
3	Addl. Chief Engineer	50.00	300.00	3.00	15.00	10.00	50.00
4	Chief Engineer	100.00	1000.00	5.00	25.00	20.00	100.00
5	Admn.Deptt.,PWD	> 100.00	> 1000.00	> 5.00	> 25.00	> 20.00	> 100.00

However, as per GAD(Gr.-IV) Order No. F25(3)G.A./4/2015 dated 21-7-17 for Repair/Addition& alteration of residential Quarters of G.A.D., all the forecast estimates are to be submitted through Chief Engineer (Building) despite revised competency.

- i. Letter of the concerned department by which demand for forecast estimate is made must be enclosed along with conceptual drawing used.
 - ii. Plinth area rates for forecast estimate must be declared by Superintending Engineer in the circle which shall invariably be revised annually under information to concerned zonal office Addl. CE & Chief Engineer, PWD, Jaipur. Forecast estimate shall also be signed by PWD's Electrical Engineers as per requirement for electrical specific items.
 - iii. Provisions for Rain water harvesting system and for accessibility to specially-able persons shall be included; Estimated amounts for boundary wall, approach road, development works etc. may also be included separately if necessarily required.
 - iv. Provisions @14% for water supply & sanitary work & @12.50% for internal electrical work except Hospital & Hostel Buildings [@14.5% for Hospital & Hostel electrical internal services] shall be taken.
 - v. Solar panel system, firefighting air cooling/AC system, Security system DG sets etc. and green building measures for energy efficiency may also be included by the Executive Engineer (Electrical) as per PWD circular issued vide No. 207, 208 date 04.06.2013.
 - vi. Provision of 1% quality control charges, 1.50% for contingency and 13% percentage charges for PWD shall be taken; For large, specific building works, estimated amounts for consultancy service and escalation @ 7% p.a. may be added in estimate, if necessary.
- This bears the approval of Admn. Deptt., Public Works Department, Govt. of Rajasthan vide ID no. 00487... dated 31/1/18 and will be applicable with immediate effect.



(C.L. Verma)

Chief Engineer & Addl. Secretary
PWD, Rajasthan Jaipur

कार्यालय मुख्य अभियंता सार्वजनिक निर्माण विभाग, राजस्थान जयपुर
 क्रमांक एसई (आर) / ईई जीजीपी-॥ / बीएलपी / २०-२१ / शी-१३६ दिनांक ३०/१२/२०

कार्यालय आदेश

विभाग के आदेश क्रमांक CE(Bldg.)DLP.(Bldg. Works)/D-268 दिनांक 07.10.2009 एवं क्रमांक SE(SS)/DLP/2011-12/D-624 दिनांक 12.10.2012 को अधिक्रमण (Supersede) करते हुए राज्य योजनाओं में लागत राशि ₹० 10.00 लाख से अधिक के कार्यों की दोष निवारण की अवधि निम्नानुसार निर्धारित की जाती है:-

क्र. सं.	कार्य का प्रकार	दोष निवारण अवधि
1	सड़क नवीनीकरण एवं विशेष मरम्मत कार्य	5 वर्ष
2	नवीन सड़क/भवन/पुल/सीढ़ी कार्य	5 वर्ष
3	सड़क चौड़ाइकरण, सुदृढ़ीकरण एवं उन्नयन कार्य	5 वर्ष

यह आदेश जारी करने की दिनांक से प्रभावी है तथा प्रगतिस्त एवं आगामी समस्त निविदाओं में शामिल किया जाना है।

उक्त आदेश वित्त (जीएण्डटी) विभाग आईडी संख्या 102005419 दिनांक 7.12.2020 द्वारा दी गयी टिप्पणी अनुसार प्रशासनिक विभाग की आईडी संख्या सीएमओ/एफ 20004363 दिनांक 22.12.2020 द्वारा अनुमोदित है।

अधिकारी
 ३०/१२/२०२०
 (संजीव मोदुर)

मुख्य अभियंता एवं अतिरिक्त सचिव
 साठनियांवि, राज० जयपुर

प्रतिलिपि निम्नांकित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

- श्रीमान प्रमुख शासन सचिव, माननीय मुख्यमंत्री कार्यालय, राजस्थान जयपुर।
- निजी सचिव, श्रीमान प्रमुख शासन सचिव, सा.नि.वि., राजस्थान जयपुर।
- निजी सचिव, श्रीमान शासन सचिव, सा.नि.वि., राजस्थान जयपुर।
- मुख्य अभियंता, पीएमजीएसवाई/एन०एच०/भवन/गुण नियन्त्रण, सा.नि.वि. राजस्थान जयपुर।
- अतिरिक्त मुख्य अभियंता, सा.नि.वि. संभाग:- (समस्त)।
- अधीक्षण अभियंता, सा.नि.वि. वृत्त:- (समस्त)।
- अधिशासी अभियंता, सा.नि.वि. खण्ड:- (समस्त)।

अधिकारी
 ३०/१२/२०२०
 (संजीव मोदुर)

मुख्य अभियंता एवं अतिरिक्त सचिव
 साठनियांवि, राज० जयपुर

OFFICE OF THE CHIEF ENGINEER P.W.D RAJASTHAN, JAIPUR

No.: CE(B)/SE(B-I)/EE(B-I)/2021-22/D- 287

Dated: 26.08.2021

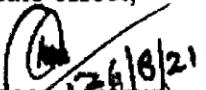
*Circular file***Office Order**

It has been observed that many a times conflicts arise between client department and PWD with respect to some issues like quality of work, construction activity of different parts of building within allotted space for construction, construction taken/not taken up as per approved plans by client department etc, sometimes which are observed at that stage where the building work is almost completed and in turn it leads delay in taking over the completed building for pretty long times.

It is, therefore, directed to all field officer incharge that there shall be at least three joint inspections of competent field officers of PWD & concerned department, firstly one when the building is at plinth level, secondly after casting of roof and third one before final finishing of construction, so that it could be ensured that construction of building fulfil its functional requirements of client department. The inspection note of each joint inspection shall be issued with joint signature of officials of PWD & Client department and to be sent to head of departments.

The compliance to this order shall be strictly ensured by all officers.

This order shall be considered as in force with immediate effect,



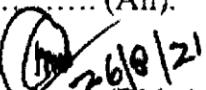
(Sandeep Mathur)
Chief Engineer (Bldg.),
PWD, Rajasthan Jaipur.

No.: CE(B)/SE(B-I)/EE(B-I)/2021-22/D- 287

Dated: 26.08.2021

Copy to following for information please:-

1. PS to Principal Secretary, Public Works Department, Rajasthan, Jaipur.
2. PS to Secretary, Public Works Department, Rajasthan, Jaipur.
3. PS to Chief Engineer & Addl. Secy., Public Works Department, Rajasthan, Jaipur
4. Additional Chief Engineer, Public Works Department, Zone - (All).
5. Superintending Engineer, Public Works Department, Circle - (All).
6. Executive Engineer, Public Works Department, Division - (All).



Chief Engineer (Bldg.),
PWD, Rajasthan Jaipur.

OFFICE OF THE CHIEF ENGINEER P.W.D. RAJASTHAN JAIPUR
 No. ACE(P)/EE(SS&C)/2021-22/D- 17 Dated: 08/10/2021

Circular

Circular No.CE& AS/ TA-1/EE (D&T)/2016-17/D-126 dated 08.08.2016 issued earlier vide this office regarding use of steel for PWD works is hereby withdrawn.

For all building, road and bridge works executed by PWD, henceforth, as per Ministry and Road Transport & Highway S&R (B) section New Delhi letter no. RW/NH-34066/09/2017-S&R (B) dated 12.02.2021, it has been decided to allow steel produced from ore/billets/pellet/melting of scrap subject to fulfillment of conditions mentioned below. Accordingly, clause 1009.3.1 of Ministry's specification for Road and bridge works has been amended as under:

For plain and reinforced cement concrete (PCC and RCC) or pre-stressed concrete (PSC) works, the reinforcement/ unmentioned steel as the case may be, shall consist of the following grades of reinforcing bars:

Mild steel (MS): Grade-1 (conforming to IS 432)

High strength deformed Steel (HSD): Fe415, Fe415D, Fe415S, Fe500, Fe500D, Fe500S, Fe550, Fe550D &Fe600 (conforming to IS 1786)

If any grade of steel given above is not available steel of next higher grade may be used.

For seismic zones III, IV and V, HSD steel bars having minimum elongation of 14.5% shall be used.

For seismic zones III, IV and V, HSD steel bars shall possess following properties:

- The actual 0.2% proof strength of steel bars based on tensile test must not exceed their characteristic 0.2% proof strength by more than 20%
- The ratio of the actual ultimate strength to the actual 0.2% proof strength/yield strength shall be at least 1.15.

All the manufacturers/ suppliers, as the case may be, shall supply the purchaser or his authorized representative with the certificate stating the process of manufacture and also the test sheet signed by the manufacturer giving the result of each mechanical test applicable for each lot of the material supplied and chemical composition. Sample shall be got tested in the NABL accredited laboratories only, by Executive Engineer concerned. It shall be ensured that all the test results conform to IS 432 (MS) or IS 1786 (HSD).

2021

Only new steel shall be delivered to the site. Every bar shall be inspected before assembling on the work and defective, brittle or burnt bars shall be discarded. Bar with cracked ends shall be discarded.

This shall be applicable for all Building, Road, Bridge and other works executed by Public Works Department of Rajasthan. This circular will be implemented from the date of its issuance.

SM
6/10/2021
(SanjivMathur)

CE (Road) & AS PWD
Rajasthan Jaipur

No. ACE(P)/EE(SS&C)/2021-22/D- 17

Dated: 06/10/2021

Copy to following for information and necessary action please:

1. PS to Pr. Secretary, PWD, Govt. of Rajasthan.
2. PS to Secretary, PWD, Govt. of Rajasthan.
3. Chief Engineer cum Addl. Secretary, PWD, Rajasthan
4. Chief Engineer NH/Road/Build/SS/PMGSY/QC PWD Rajasthan
5. MD, RSRDCC Ltd. JhalanaDungari, Jaipur.
6. Financial Advisor, PWD, Rajasthan.
7. Addl. Chief Engineer, PWD, Zone All
8. Superintending Engineer PWD Circle All
9. Executive Engineer PWD Division All

TC
CE (Road) & AS PWD

2324 20/10/21,

SM *SM*

Cmtall XOM

SM
6/10/2021
(SanjivMathur)

CE (Road) & AS PWD
Rajasthan Jaipur

OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR
 S.No. CE(QC)/EE(QC)/2021-22/Circular/D- 448 Date : 07/03/22

Circular

Sub.: Fixing of Norms for QC tests / Inspection of Identified works.

The norms for QC tests to be conducted by various officers were fixed vide circular no. F-5/CE(SS)/PWD/EE(SI&QC)/Cir/09/D-2408 dated 24/09/2009. Now due to creation of SE (QC) post on each Zonal office. It is felt that the separate percentage for SE (QC) be fixed for ensuring better quality of works.

Now the above norms are hereby revised as below-

S. No.	Designation of officer	Present Norms	Revised proposed Norms for testing w.r.t. to total no of tests of a particular works
1	Addl. Chief Engineer	0.5%	0.5%
2	Superintending Engineer (Circle)	2%	2%
3	Executive Engineer (Division)	5%	5%
4	Assistant Engineer (Sub Division)	20%	20%
5	Junior Engineer (Section)	-	50%
6	Superintending Engineer (QC)(Circle)	-	1%
7	Executive Engineer (QC Division)	5% (Combined)	3%
8	Assistant Engineer (QC Sub Division)	-	5%

The prevailing limits of identified works as defined in circular no. CE(QC)/EE-QC/2018-19/Circular/D-181 dated 16.09.2019 are as under :-

- | | |
|-------------------|-------------------------|
| (1)Road works | Rs. 150.00 lacs or more |
| (2)Bridge works | Rs. 80.00 lacs or more |
| (3)Building works | Rs. 80.00 lacs or more |

The present norms are fixed for tour and night halt in the department vide circular-1. issued vide F-14(1)PW/2012/Part-I dated 30.04.2012.

Mookesh

For regular monitoring of quality and workmanship of works, numbers of inspections during a month are fixed as under-

Post	Prescribed norms for tours	Minimum Number of identified works to be inspected in a month	Mandatory tests to be done
CE (Other than QC)	3	6	1. Overall Profile and geometries of road and building works
CE (QC)	3	12	1. Overall Profile and geometries of road and building works 2. Core cutting in case of road works 3. Compressive Strength in case of building and bridge works 4. QC records & QC labs
ACE	6	18	1. Overall Profile and geometries of road and building works 2. Core cutting in case of road works 3. Compressive Strength in case of building and bridge works 4. Review of Design mix of concrete/Job mix formula of road items
SE-Field /SE-QC	6	18	1. Thickness 2. Overall Profile and geometries of road and building works 3. Core cutting 4. Compressive strength of concrete 5. Q.C. records 6. Road Geometry like camber, super-elevation, longitudinal gradient & drainage
EE-QC & AEn-QC	7	21	1. Thickness 2. Overall Profile and geometries of road and building works 3. Core cutting 4. Road Geometry like camber, super-elevation, longitudinal gradient & drainage 5. Density of EW/GSB/WMM

Mookesh

It is also directed that the selection of identified works for inspection, should be in such a way that the works which are abnormally below tender premium (i.e. more than 20% below and 10% to 20% below) be given priority

This bears the approval of Govt. vide ID No. 205 dated 02.03.2022.

*Mookesh
7/3/2022*
(Mookesh Bhati)
Chief Engineer (QC)
PWD Rajasthan Jaipur

S.No. CE(QC)/EE(QC)/2021-22/Circular/D- 448

Date : 07/03/22

Copy to following for information and necessary action please-

1. PS to Hon'ble PWM, Govt. of Rajasthan, Jaipur
2. PS to Principal Secretary, PWD Rajasthan, Jaipur
3. PS to Secretary, PWD Rajasthan, Jaipur
4. PS to Chief Engineer & Addl. Secretary, PWD Rajasthan, Jaipur
5. Chief Engineer (NH/Roads/PMGSY/Building/Electrical), PWD Rajasthan, Jaipur
6. Additional Chief Engineer, Adm / BOT /Roads/ PPP, PWD Rajasthan, Jaipur
7. Additional Chief Engineer, PWD Zone(All)
8. SE cum TA-I/SE, Road/NH/Building/PMGSY/SS/Traffic/Bridge/QC/SS&C PWD Rajasthan, Jaipur
9. Superintending Engineer, PWD Circle including Quality Control ... (All)
10. Executive Engineer, PWD Division including Quality Control (All)
11. Testing Officer, PWD Central / Regional Lab (All)

*Mookesh
7/3/2022*
Chief Engineer (QC)
PWD Rajasthan Jaipur

OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR
No. SE(R)/EEGGP-II/D-7/O/T

Date: 20/03/2022

OFFICE ORDER

The time schedule for completion of works as specified in order No SE/NH/08/E&I/D-990 dated 03.09.2008/ PWD Manual Clause 30.7.2 is revised as under:-

C. Road Works:-

S.No	Work Cost	Maintenance/ Renewal/ Strengthening by BT	New Road/ Widening/ Strengthening by WBM	New CD works (involving foundation work)
1	Upto Rs 50 Lacs	1 to 2 Months	2 to 3 Months	2 to 3 Months
2	Above Rs 50 lacs & upto Rs 300 Lacs	2 to 4 Months	3 to 5 Months	3 to 6 Months
3	Above Rs 300 lacs & upto Rs 500 Lacs	4 to 6 Months	5 to 8 Months	6 to 9 Months
4	Above Rs 500 lacs & upto Rs 1500 Lacs	6 to 8 Months	8 to 10 Months	9 to 12 Months
5	Above 1500 Lacs & upto Rs 5000 Lacs	8 to 10 Months	10 to 12 Months	12 to 15 Months
6	Above 5000 Lacs	10 to 12 Months	12 to 15 Months	15 to 18 Months

D. Building Works:-

S.No	Work Cost	Maintenance work	Original Work
1	Upto Rs 10 Lacs	1 to 2 Months	3 to 4 Months
2	Above Rs 10 lacs & upto Rs 50 Lacs	2 to 4 Months	4 to 6 Months
3	Above Rs 50 lacs & upto Rs 200 Lacs	-	6 to 8 Months
4	Above Rs 200 lacs & upto Rs 1000 Lacs	-	8 to 12 Months
5	Above 1000 Lacs & upto Rs 5000 Lacs	-	12 to 15 Months
6	Above 5000 Lacs	-	15 to 18 Months

This bear approval of the A.D. vide ID No 412/PWM dated 30.03.2022. Relaxation, if any for specific job shall be provided by Chief Engineer & Addl. Secy PWD.

2APR
30/3/2022
(Sanjiv Mathur)

CHIEF ENGINEER & ADDL. SECY.
PWD, RAJASTHAN, JAIPUR

कार्यालय मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग राजस्थान, जयपुर

क्रमांक : CE(QC)/SE(QC)/2022-23/निरीक्षण/डी-३५३

दिनांक : 26-8-22

इस फॉर्मालिय के पूर्व पत्र कमांक CE(QC)/SE(QC)/2022-23/निरीक्षण/डी-347 दिनांक 24.08.2022 की निरन्तरता में बजट धोषणाओं में स्थीकृत धिभाग में प्रगतिरता कार्यों के प्रगाढ़ी निरीक्षण हेतु कार्यों की गुणवत्ता व समयबद्धता सुनिश्चित करने हेतु गुण नियन्त्रण अधिकारियों को निमानुसार निर्देश प्रदान किये जाते हैं। इस कार्यालय के पत्र कमांक CE(QC)/EE(QC)/2021-22/Circular/D-448 दिनांक 07.03.2022 के द्वारा पूर्व में गुण नियन्त्रण शाखा के अधीन कार्यरत अधिकारियों के निरीक्षण के मापदण्ड निर्धारित किये जा चके हैं। (प्रतिलिपि संलग्न)

इसके अतिरिक्त कार्य की प्रशासनिक एवं वित्तीय स्थीकृत राशि अनुसार गुण नियंत्रण निरीक्षण हेतु निम्नोंकि ता प्राप्त निर्धारित किये जाते हैं।

क्र. संख्या	निरीक्षण अधिकारी	भवन/पुल कार्य	राडक कार्य
1.	अधिशार्पी अभियन्ता(गुण नियन्त्रण)	80 लाख से 200 लाख तक स्वीकृत कार्य	150 लाख से 300 लाख तक स्वीकृत कार्य
2.	अर्धीक्षण अभियन्ता(गुण नियन्त्रण)	200 लाख से अधिक के स्वीकृत कार्य	300 लाख से अधिक के स्वीकृत कार्य

इस क्रम में किये जाने वाले निरीक्षण हेतु सचना निम्नानुसार भिजवाया जाना सुनिश्चित करें।

प्रपत्र अ का प्रारूप

प्रत्येक जन का ज्ञान				
योजना का नाम	कुल स्वीकृत कार्य	प्रगतिशील कार्य	अप्रारंभ कार्य की संख्या व कारण	वाधित कार्यों की संख्या व कारण
1.				
2.				

प्रपत्र ब कार्यवार प्रारूप

कार्य का नाम		प्रतिवर्ष कार्यवार प्राप्ति				
योजना का नाम	स्थीकृत राशि	तकमीनानुसार		निरीक्षण के दौरान उपलब्ध		टिप्पणी
भौतिक प्रगति	स्थीकृत लम्बाई	चौड़ाई मी.	मोटाई मि.मी.	चैनेज	चौड़ाई मी.	मोटाई मि.मी.
Main Carriageway:-						
GSB						
WBM						
BT						
CC						
Widening :-						
GSB						
WBM						
BT						
Shoulder:-						
GSB						

फील्ड लेब की स्थिति (A) रशापित है / नहीं				
(B) उपलब्ध उपकरणों की सूची				
गुणवत्ता रजिस्टर की स्थिति (A) संधारित है / नहीं				
(B) गुण नियन्त्रण परीक्षणों की स्थिति	मापदण्डानुसार आवश्यक परीक्षणों की संख्या	किये गये परीक्षणों की संख्या	इस निरीक्षण में किये गये परीक्षणों का विवरण	इस निरीक्षण में किये गये परीक्षणों के परिणाम का व्यौरा
				संतोषजनक असंतोषजनक

*mookesh
26/8/2021*

(मुकेश माटी)
मुख्य अभियन्ता (गुण नियन्त्रण)
सा.नि.वि. राजस्थान, जयपुर

क्रमांक : CE(QC)/SE(QC)/2022-23/निरीक्षण/डी- ३५३

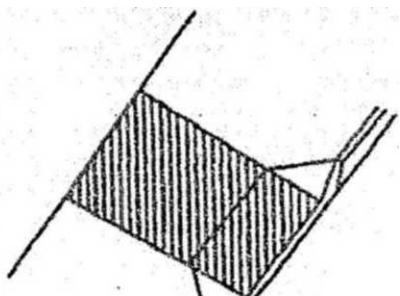
दिनांक : २६-८-२२

प्रतिलिपि: निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:-

1. निजी सचिव माननीय मंत्री महोदय सा.नि.वि. राजस्थान सरकार, जयपुर।
2. निजी सचिव प्रमुख शासन सचिव सा.नि.वि. राजस्थान, जयपुर।
3. निजी सचिव शासन सचिव सा.नि.वि. राजस्थान, जयपुर।
4. मुख्य अभियन्ता एवं अतिरिक्त सचिव सा.नि.वि. राजस्थान, जयपुर।
5. अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग(समस्त)।
6. अधीक्षण अभियन्ता, सा.नि.वि. वृत(समस्त)।
7. अधीक्षण अभियन्ता सा.नि.वि. गुण नियन्त्रण वृत(समस्त)
8. अधिशासी अभियन्ता सा.नि.वि. गुण नियन्त्रण खण्ड(समस्त)

*mookesh
26/8/2021*

मुख्य अभियन्ता (गुण नियन्त्रण)
सा.नि.वि. राजस्थान, जयपुर

KERBS AND CROSSINGS

The pavement should be dropped to be flush with the road way gradient no greater than 1:12 on both sides of necessary and convenient crossing points.

The crossing points should also be highlighted by tactile paving/guiding blocks

A ramp suitable for use by wheelchair users will be no steeper than 1:12 for a distance of up to 5m 1:15 for a distance of up to 10m. Thereafter a landing at least 1.5m long is required. The ramp should have a clear, unobstructed width of 1000mm, a non-slip finish and continuous

Handrails on both sides at 900mm above the surface of the ramp. It should also have landings 1.2m deep, clear of any door swing, at its head and foot and an up-stand of at least 100mm on any open side of the flight or landing. Wherever possible a ramp should be accompanied by a flight of easy going steps.

