

Appendix 2:

Load Calculation of Various Building and its Components in Phase 1

		Interior Lighting Power as per ECBC 2017	For other Electrical Loads Except Lighting load already taken as per ECBC, Considering the Guidelines (25-40Watts/sqm less LPD as per ECBC)	Air conditioning	Total with diversity
		1.04Watt/sqft	1.98Watt/sqft	1.2kW/TR	
A	School of learning 1 and 2 sqft of usage (Kindly refer Area sheet For Area calculation)	17800.00sqft	17800.00sqft	21.1TR	
1	Connected Load	18.5KW	35.3KW	25.3KW	63.2KW
B	Admin Block 1 sqft of usage	10860.00	8845.00	19.0TR	
1	Connected Load	11.3KW	17.5KW	22.8KW	41.3KW
C	Admin Block 2	4280.00	4280.00	17.4TR	
1	Connected Load	4.5KW	8.5KW	20.8KW	27.0KW
D	Library and Computer Labs	6205.00	4785.00	20.1TR	
1	Connected Load	6.5KW	9.5KW	24.2KW	32.1KW
E				5.20Watt/sqft	for residential blocks and cafeteria
E	Cafeteria Block	6000.00	4500.00	4500.00	
1	Connected Load	6.2KW	8.9KW	5.4KW	16.4KW
F	Residential Block Scholars	13206.00	10106.00	10106.00	
1	Connected Load	13.7KW	20.0KW	52.6KW	69.0KW
F	Residential Block Boys	18864.00	15264.00	15264.00	
1	Connected Load	19.6KW	30.2KW	79.4KW	103.4KW

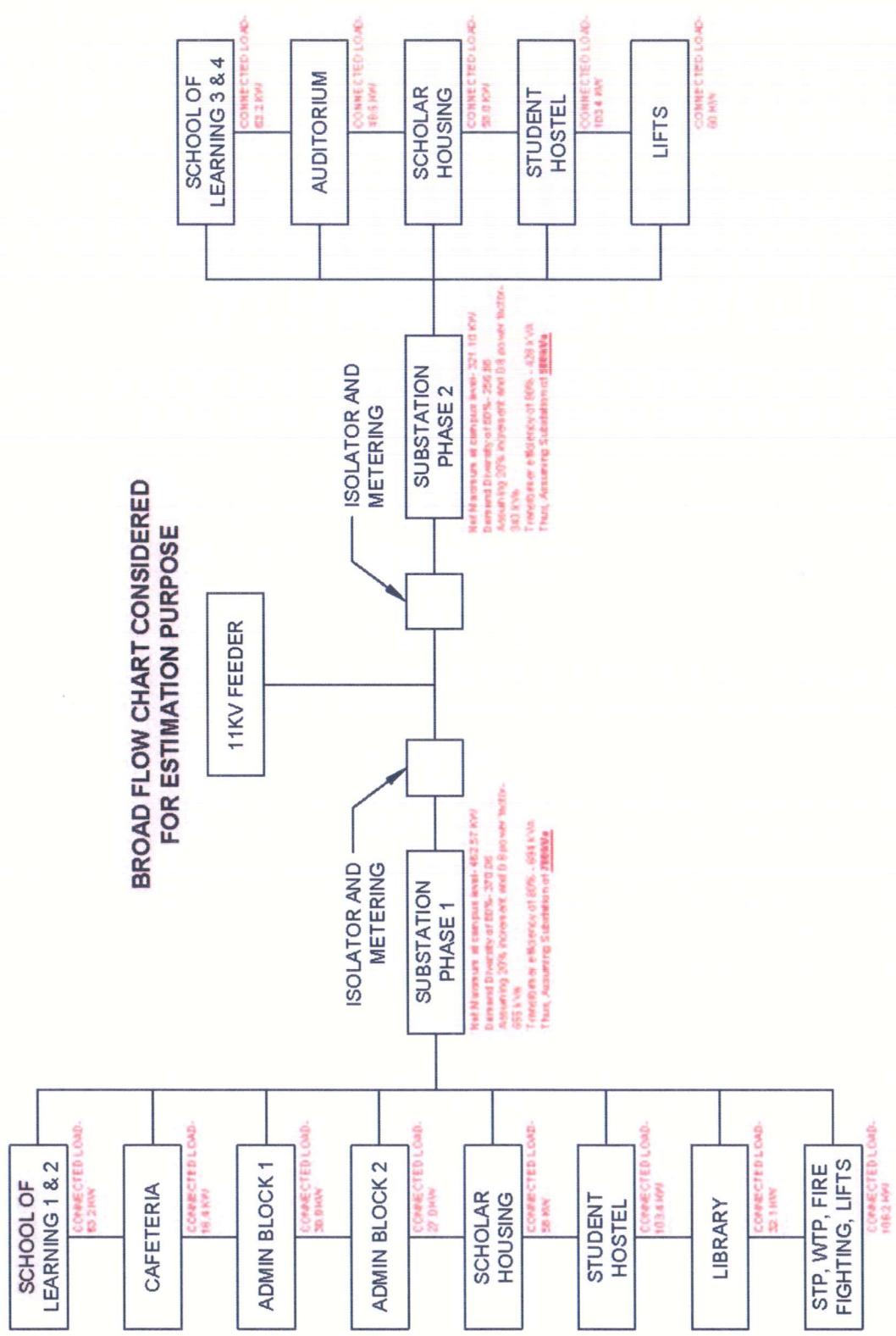
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Load Calculation of Various Building and its Components in Phase 1

		Interior Lighting Power as per ECBC 2017	For other Electrical Loads Except Lighting load already taken as per ECBC, Considering the Guidelines (25-40Watts/sqm less LPD as per ECBC)	Air conditioning	Total with diversity
		1.04Watt/sqft	1.98Watt/sqft	1.2kW/TR	
G	Exterior Lighting	sqm	watts/sqm	Diversity	
	Builidng Façade @5w/sqm of façade area	1794.0	5		9.0KW
	Driveways and Parking @1.6w/sqm	8670	1.6		13.9KW
	Pedestrian Walkways @2.0 w/sqm	7127	2		14.3KW
	Landscaping 0.5w/sqm	18254	0.5		9.1KW
	Campus entrance @10 w/sqm	81	10		0.8KW
H	WTP	40.0	KLD	0.120KW/kld	4.8KW
I	STP	52.0	KLD	0.030KW/kld	1.6KW
J	Fire fighting	1.0			7.5KW
K	Lift	6.0	nos	10.000KW	60.0KW
L	Hyrdro Pneumatic Pumps	8.6	HP	6.43KW	6.4KW
Net Maximum Level at Campus level (KW)					463.731
Maximum Deman Diveristy of 80%					370.985
20% increment for future demand					445.182
Assuming 0.8 Power factor, Maximum Load in KVA,					556KVA
Transformer KVA Considering efficiency of 80%					696KVA
say					700KVA
DG Required for (Considering, all loads except for hostel and scholors residences)					144KVA
Provide					200KVA
UPS shall only be provided for Library and labroom					7.9KW

Load Calculation of Various Building and its Components in Phase 2					
	Interior Lighting Power as per ECBC 2017	For other Electrical Loads Except Lighting load already taken as per ECBC, Considering the Guidelines (25-40Watts/sqm less LPD as per ECBC)	Air conditioning	Total considering diversity	
	1.04Watt/sqft	1.98Watt/sqft	1.2kW/TR		
A	School of learning 3 and 4 and 5 sqft of usage (Kindly refer Area sheet For Area calculation)	17800.00sqft	17800.00sqft	21.07 TR	
1	Connected Load	18.5KW	35.3KW	25.3KW	63.2KW
B	Auditorium	5500.00	5500.00	36.67 TR	
1	Connected Load	5.7KW	10.9KW	44.0KW	48.5KW
C	Residential Block Scholors	13206.00 sqft	10106.00 sqft	10106.00 sqft	for residential blocks
1	Connected Load	13.7KW	20.0KW	52.6KW	69.0KW
D	Residential Block Boys	18864.00 sqft	15264.00 sqft	15264.00 sqft	
1	Connected Load	19.6KW	30.2KW	79.4KW	103.4KW
E	Lifts	5.00 nos.		10.0KW	50.0KW
Net Connected Load (KW)					324.142
Maximum Demand Diversify of 80%					259.313
20% increment for future demand					311.176
Assuming 0.9 Power factor, Maximum Load in KVA,					346KVA
Transformer KVA Considering efficiency of 80%					432KVA
say					500KVA
DG Required for (Considering, all loads except for hostel and scholors residences) (considering					112KVA
Provide					200KVA
UPS shall only be provided for Auditorium					48.5KW

ANNEXURE A



Water Requirement Analysis							
Phase	S.No.	Description	Population	Domestic per day	Domestic Water Requirement (litres)	Flushing / Recycled Water Requirement (litres)	Remarks
Phase 1B	1	School of learning 1+2	202	25	5050	20	4040 refer NBC, Part 9, Section 1, Table 1, (xiii)a
	2	Student Hostel	64	90	5760	45	2880 refer NBC, Part 9, Section 1, Table 1, (v)
	3	Scholar Hostel	16	90	1440	45	720 refer NBC, Part 9, Section 1, Table 1, (v)
	4	Admin	60	25	1500	20	1200 refer NBC, Part 9, Section 1, Table 1, (viii)
	5	Cafeteria	80	55	4400	20	1600 refer NBC, Part 9, Section 1, Table 1, (ix) a
	6	Computer Lab and Library	60	25	1500	20	1200 refer NBC, Part 9, Section 1, Table 1, (xiii)a
Phase 2	7	School of learning 3+4	202	25	5050	20	4040 refer NBC, Part 9, Section 1, Table 1, (xiii)a
	8	Student Hostel	64	90	5760	45	2880 refer NBC, Part 9, Section 1, Table 1, (v)
	9	Scholar Hostel	16	90	1440	45	720 refer NBC, Part 9, Section 1, Table 1, (v)
	10	Auditorium	250	5	1250	10	2500 refer NBC, Part 9, Section 1, Table 1, (xi)
	11	Floating Population @10% of total population	22	15	330	20	440 refer NBC, Part 9, Section 1, Table 1, note
	12	Horticulture purposes					15000 as per horticulture water requirements attached
		Total water requirement			33480		37220
		adding 7.5% losses			35991		
		Water Requirement			say 40 KL for Fresh Water	for Recycled water	say 40 KL
		Water Tank [1.5 times daily requirement]			1.5	60 KL	60 KL

Horticulture Water Requirements				
S.No.	Description	Qty	Unit	Remarks
1	Total no. of trees	1357.00	nos.	Assuming trees planted along the periphery @1.5m c/c and additional 50% of this planted in the campus
2	Water requirement	12	litres per day per tree	
	Total Water Requirement	16284	lpd	
		16.284	KLD	
		15	KLD say	

Hydro Pneumatic Pumps Requirement and Sizing Calculation			
S.No.	Description	Qty	Units
A.1	FRESH WATER HYDRO PNEUMATIC PUMPS		
1	Fresh Water tank Capacity	40	KL
2	Qty of fresh water to be pumped to OHT of individual buildings (50%)	20	KL
3	Time required to fill OHT (assuming)	20	min
4	Flow required on above assumption	1000	lpm
	<i>This flow can be catered by providing 1 working motor</i>		
	<i>1 additional standby shall be given of capacity 1000lpm having a head of min. 21m</i>		
A.2	STANDBY PUMP CAPACITY CALCULATION		
5	Flow	60	cum/h
6	Head	21	m
7	Efficiency	80%	
8	Power for motor required in HP	5.75	HP
B.1	RECYCLED WATER HYDRO PNEUMATIC PUMPS		
1	Fresh Water tank Capacity	40	KL
2	Qty of fresh water to be pumped to OHT of individual buildings (50%)	20	KL
3	Time required to fill OHT (assuming)	40	min
4	Flow required on above assumption	500	lpm
	<i>This flow can be catered by providing 1 working motor</i>		
	<i>1 additional standby shall be given of capacity 1000lpm having a head of min. 21 m</i>		
B.2	STANDBY PUMP CAPACITY CALCULATION		
5	Flow	30	cum/h
6	Head	21	m
7	Efficiency	80%	
8	Power for motor required in HP	2.87	HP

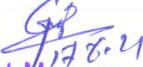
1 Standby pump of 5.75HP would be provided for fresh water pumping and 1 standby pump of 2.87HP would be provided for recycled water pumping

Solar photo Voltaic power Generation system Calculations		
S.No.	Description	Qty
1	Solar Irradiation	1156.39 W/sq.m.
2	Conversion Efficiency	10%
3	Percentage of terrace area dedicated for solar power	50%
4	Sunshine Hours	5.5
5	1kWp solar rooftop plant will generate an average of 4.6kWh electricity per day	4.60 kWh
	Phase 1	
6	Terrace Area	2196.02 sq.m.
7	Maximum solar power that can be generated on above available terrace area in a day	698.35 kWh
8	Panels of kWp required	152.00 kWp
9	Considered for the project 50% of the above	76.00 kWp
	<i>say</i>	80.00 kWp
	Phase 2	
1	Terrace Area	1571.72 sq.m.
2	Maximum solar power that can be generated on above available terrace area in a day	499.82 kWh
3	Panels of kWp required	108.00 kWp
4	Considered for the project 50% of the above	54.00 kWp
	<i>say</i>	50.00 kWp

LEAD ANALYSIS FOR Odia University									
Material	Name of quarry	Lead in K.M	Cost of Material	Rate of Lead	Royalty	Total cost of material	Unit	Lead and Royalty	
H.G Metal	Tapang	45	706.67	501.67	130.00	1338.34	per cum	631.67	/cum
4cm size									
H.G Metal	Tapang	45	1007.62	501.67	130.00	1639.29	per cum	631.67	/cum
2cm size									
H.G chips	Tapang	45	1047.62	501.67	130.00	1679.29	per cum	631.67	/cum
12mm chips									
H.G chips	Tapang	45	1066.67	501.67	130.00	1698.34	per cum	631.67	/cum
10mm chips									
Sand	Haripur	28	46.67	352.07	35.00	433.74	per cum	387.07	/cum
Filling sand	Balanga	17	41.90	255.27	35.00	332.17	per cum	290.27	/cum
Flyash Brick	Chandanpur	15	3914.89	681.74		4.60	per nos	681.74	/1000
Cement	Local	5	491.74	16.17		507.91	per qtl	16.17	/qntl
HYSD Rod	Local	5	57493.14	16.17		5765.49	per qtl	16.17	/qntl
Laterite stone	Jatani	35	544.76	413.67	180.00	1138.43	per cum	593.67	/cum
Stone Dust	Tapang	45	76.19	501.67	35.00	612.86	per cum	536.67	/cum
Moorum	Kantia	35	45.71	413.67	35.00	494.38	per cum	448.67	/cum

LEAD ANALYSIS FOR Odia University

Material	Name of quarry	Lead in K.M	Cost of Material	Rate of Lead	Royalty	Total cost of material	Unit	Lead and Royalty
Khandolite	Bhubaneswar	45	22968.20	501.67		23469.87	per cum	501.67 /cum
Sand Stone	Bhubaneswar	45	15901.06	501.67		16402.73	per cum	501.67 /cum
Small Eye Laterite	Bhubaneswar	45	9600.00	501.67	180.00	10281.67	per cum	681.67 /cum
Paint	Local	5		0.16		0.16	per kg	0.16 /kg
Paver Block	Bhubaneswar	45		1276.04				1276.04 /1000
Wood	Local	5		129.38				129.38 /cum


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Analysis of Rate 2

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
1	N.S	CNC cut steel plates made from 3.3mm thk MS steel plates, including cost of material labour and erection and cost of cnc cutting. Data for 1 Sqm				
		a) Material				
		Mild steel plates- (1x1x0.0033=0.0033 cum x 7870=26.36 kg)	kg	26.36	60	1581.87
		Cost of CNC cutting per sqm as per market	sqm	1.00	323	323.00
		Cost of fitting	sqm	1.00	120	120.00
		Primer and paints	sqm	1.00	120	120.00
		Total				2144.87
		b) Labour				
		Fitter (grade 1)	day	0.35	461	161.35
		Highly Skilled	day	0.52	461	239.72
		Un skilled	day	0.69	311	214.59
		Cost of to and from transportation asuuming 50km = 100km				
		Transportation one side cost per 1000 kg	kg	26.36	1.31	34.54
		Transporation for 1000kg @ (175.50 + (8.23*45))*2 = 1310.04				
		Total				650.20
		Total (a+b)				2795.07
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			419.26
		Total (a+b+c)				3214.33
		d) Add Labour cess 1% on above	@1.0%			32.14
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per SQM				3246.47
2	XI, S.No. 37, pg 127	New bamboo frames made of 2.5cm to 4cm dia bamboo for nuria tile roofing for single and double layers per 1 Sqm.	sq.m.	9.3		
		Data for 9.30 Sqm				
		a) Material				
		2.5cm to 4cm dia 1st class bamboos=292.61 R.M. (4.15 meters each av) or say 70 Nos	Nos	70	106.22	7435.40
		5cm long french reapers nails	kg	1.36	89.78	122.10
		Total				7557.50
		b) Labour				
		Semi Skilled	day	1.5	351	526.50
		Total				526.50
		Total (a+b)				8084.00
		c) Overhead Charges@ 15 % on (a+b)	@15.0%			1212.60
		Total (a+b+c)/9.30				999.63
		d) Add Labour cess 1% on above	@1.0%			10.00
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per SQM (A)				1009.63
3	XI, S.No. 40, pg 128	Best thatched roofing 22.5cm in two layers 7.5cm bottom layer and 15cm top layers including split bamboo jaffry on top per 1 sqm.	sq.m.	9.3		
		Data for 9.3 sqm				
		a) Material				
		Bundle of thatch 30 cm girth	100 nos	3.5	200	700.00
		2.5cm to 4cm dia bamboos for jaffry on top and bottom of thatch layers (100 Nos =18, 18/100= 0.18 Nos)	100 Nos	0.18	106.22	19.12
		Total				719.12
		b) Labour				
		Highly Skilled	day	1.5	461	691.50
		Semi Skilled	day	2	351	702.00
		Total				1393.50
		Total (a+b)				2112.62
		c) Overhead Charges @15 % on (a+b)	@15.0%			316.89
		Total (a+b+c)/9.30				261.24
		d) Add Labour cess 1% on above	@1.0%			2.61
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per SQM (B)				263.85

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
4	Sum serial no. 2 and 3 above)	New bamboo frames made of 2.5cm to 4cm dia bamboo for nuria tile roofing for single and double layers per 1 Sqm Best thatched roofing 22.5cm in two layers 7.5cm bottom layer and 15cm top layers including split bamboo jaffry on top per 1 sqm.				
		Add = 1050.52 + 257.82 =1308.34 sqm (rates from serial no. 2 and 3 above)				
		bamboo frames + Best thatched				1273.48
		Total			<i>say</i>	1270.00
5	XI, S.No. 3, pg 52	Laterite stone masonry in cement mortar (1:4) in foundation and plinth Per 1 cum.				
		a) Material				
		Rough dressed laterite stone	cum	1	544.76	544.76
		Sand (screened & washed)	cum	0.24	343.4	82.42
		cement	quintal	0.429	491.74	210.96
		Total				838.13
		b) Labour				
		stone dresser or cutter,	day	2.12	461	977.32
		Sangi mulia	day	1.41	401	565.41
		Mason special	day	0.175	461	80.68
		Mason second class	day	1.05	401	421.05
		Man Mulia	day	1.05	351	368.55
		Man mulia for preparing mortar and curring etc	day	0.16	311	49.76
		c) Lumpsum for murals, art work etc.				1100.00
		Total				3562.77
		Total (a+b)				4400.90
		d) Overhead Charges @ 15 % on (a+b+c)	@15.0%			660.13
		Total (a+b+c)				5061.03
		d) Royalty & Carriage				
		Rough dressed laterite stone	cum	1	593.67	593.67
		Sand	cum	0.24	149.67	35.92
		Cement	quintal	0.429	16.172	6.94
		e) Add Labour cess 1% on above	@1.0%			56.98
		f) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM			<i>say</i>	5755.00
6	NS	Filling with excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. Details of cost for 10 cum.				
		a) cost of borrow pits (LS)	cum	10	19	190.00
		b) Labour				
		Mason special	day	0.2	461	92.20
		Mason second class	day	0.2	401	80.20
		Man Mulia	day	2.5	311	777.50
		Add 1% water charges				9.50
		Total				1149.40
		c) Overhead Charges @ 15 % on (a)	@15.0%			172.41
		Total (a+b)/10=				132.18
		d) Add Labour cess 1% on above	@1.0%			1.32
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM			<i>say</i>	134.00
VII, S.No. 4,		Cement concrete (1:4:8) with 4 cm size hard granite metal	cum			
		a) Material				
		Hand broken granite stone 4cm size	cum	0.96	565.76	543.13
		Sand (screened & washed)	cum	0.48	46.67	22.40
		Cement	quintal	1.38	491.74	678.60
		b) Labour				
		Mason second class	day	0.18	401	72.18
		Man mulia	day	1.8	351	631.80
		Women mulia	day	1.4	351	491.40
		Man mulia for mixing stone, sand and cement and getting water	day	0.7	351	245.70
		c) Overhead Charges @15 % on (a+b)	@15.0%			402.78

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
7	pg 42 (D)	d) Total (a+b+c)				3087.99
		d) Royalty & Carriage				
		Hand broken granite stone 4cm size	cum	0.96	631.67	606.40
		Sand (screened & washed)	cum	0.48	387.07	185.79
		Cement	quintal	1.38	16.172	22.32
		e) Add Labour cess 1% on above	@1.0%			39.03
		f) Add GST 0% on above	@0.0%			0.00
		g) Total per cum				3941.53
		h) For work below 1.5m upto 4.5m add 15% extra on labour rate				216.16
		i) Overhead Charges @15 % on (a+b)	@15.0%			32.42
		j) Add Labour cess 1% on above	@1.0%			41.90
		i) Total for CC work in foundation deeper than 1.5m upto 4.5m				4232.01
		Earth work in ordinary soil within 50m, initial lead and 1.5m, initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge per 100 cum.				
8	V, 22, Page 32	i) Labour				
		Man Mulia- semi skilled	day	16	351	5616.00
		Female Mulia- semi skilled	day	16	401	6416.00
		ii) Overhead Charges @15 % on (i)	@15.0%			1203.20
		iii) 2% Sundries and T & P etc. on (i)				24.06
		IV) Sub Total for 100 cum				13259.26
		d) Add Labour cess 1% on above	@1.0%			132.59
		e) Add GST 0% on above	@0%			0.00
		Total for 100 CUM including GST				13391.85
		Total per cum				133.92
9	Sum serial no. 5 and 7 and 8 above)	Laterite wall Made in laterite including pcc + Toe wall of 0.45 and 0.6m(foundation), IN laterite. Per Rm.				
		Earthwork rate as per serial no. 8 above	cum	0.45	115.59248	52.02
		PCC (1:4:8), (1 x 0.80 x 0.1= 0.08 cum) rate as per serial no. 7 above	cum	0.08	3941.53	315.32
		Foundation in Laterite Stone (1 x 0.60 x 0.15=0.09 cum) rate as per serial no. 5 above	cum	0.09	4654.08	418.87
		Toe wall in Laterite Stone (1 x 0.45 x 0.2=0.09 cum) rate as per serial no. 5 above	cum	0.09	4654.08	418.87
		Top wall in Laterite Stone (1 x 0.30 x 0.45=0.135 cum) rate as per serial no. 5 above	cum	0.14	4654.08	628.30
		Total cost of Per Running Meter			say	1800.00

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
		R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusherbroken) stone chips including hoisting and laying Data for 15 cum.				
		a) Material				
		20 mm size chips	cum	8.1	1007.62	8161.72
		10mm size chips	cum	5.4	1066.67	5760.02
		coarse sand (screened and washed)	cum	6.75	343.4	2317.95
		Cement	mt	6.05	4917.4	29750.27
		b) Labour				
		Mate	Nos	0.86	351	301.86
		Mason 2nd class	Nos	1.5	401	601.50
		Man Mulia	Nos	20	351	7020.00
		c) Machinery				
		Concrete mixer(cap. 0.40/0.28 cum)	hr	6	153.91	923.46
		Generator 33 KVA	hr	6	208.7	1252.20
		d) Overhead Charges @ 15 % on (a+b+c)	@15.0%			8413.35
		Cost of 15 cum =(a+b+c+d)				64502.33
		d) Royalty & Carriage				
		20 mm size chips	cum	8.1	631.67	5116.53
		10mm size chips	cum	5.4	631.67	3411.02
		coarse sand (screened and washed)	cum	6.75	387.07	2612.72
		Cement	quintal	60.5	16.172	978.41
		e) Add Labour cess 1% on above	@1.0%			766.21
		f) Add GST 0% on above	@0.0%			0.00
		Rate per cum=(a+b+c+d)/15				5159.15
		Rate for foundation works below 1.5m to 4.5m	per cum			5933.02
		g) Add Labour cess 1% on above	@1.0%			59.33
		h) Total for CC work in foundation deeper than 1.5m upto 4.5m				5992.35
		i) Ground floor				
		Material Cost				3066.00
		Labour Cost				528.22
		Machinery Cost				145.04
		d) Overhead Charges @ 15 % on (a+b+c)	@15.0%			560.89
		Add Royalty & Carriage				807.91
		Total				5108.07
		e) Add Labour cess 1% on above	@1.0%			51.08
		Net Total Per cum Rate				5159.15
		ii) first floor				
		Material Cost				3066.00
		Labour Cost				607.46
		Machinery Cost				145.04
		d) Overhead Charges @ 15 % on (a+b+c)	@15.0%			572.77
		Add Royalty & Carriage				807.91
		Total				5199.19
		e) Add Labour cess 1% on above	@1.0%			51.99
		Net Total Per cum Rate				5251.18
		iii) Second floor				
		Material Cost				3066.00
		Labour Cost				698.58
		Machinery Cost				145.04
		d) Overhead Charges @ 15 % on (a+b+c)	@15.0%			586.44
		Add Royalty & Carriage				807.91
		Total				5303.97
		e) Add Labour cess 1% on above	@1.0%			53.04
		Net Total Per cum Rate				5357.01
		Cement mortar 1:3 (1 cement : 3 coarse sand). Details of cost for 1 cum				
		a) Material				
		(0.357 cum. of cement = 0.51 tonne) Cement required for cement mortar is 35.70%				

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
11	DSR 2019 3.8 pg no.138	Portland Cement	tonne	0.51	4917.4	2507.87
		Coarse sand (zone III)	cum	1.07	46.67	49.94
		Total				2557.81
		b) Labour				
		For measuring, carrying, depositing and mixing-				
		Mason special	day	0.07	461	32.27
		Mason second class	day	0.75	401	300.75
		Add 1% water charges				28.91
		Total				361.93
		Total (a+b)				2919.74
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			437.96
		Total (a+b+c)				3357.70
		d) Royalty & Carriage				
		Portland Cement	quintal	5.1	16.172	82.48
		Coarse sand (zone III)	cum	1.07	387.07	414.16
		d) Add Labour cess 1% on above	@1.0%			38.54
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM				3892.89
12	NS	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete 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 Engineer-in-charge). Details of cost 1.00 metre				
		a) Material				
		i.e. $0.3 \times 0.30 \times 0.15 = 0.0135$ cum.				
		No. of kerb stones = $1 / 0.30 = 4$ Nos				
		Precast C.C. Kerb stone M - 25 =				
		$4 \times 0.30 \times 0.30 \times 0.15 = 0.054$ cum				
		Precast C.C. Kerb stone M - 25 Mortar 1:3 for fixing joints				
		$= 246 \times 1 \times [(0.115 + 0.20) / 2] \times 0.375 \times 0.005 = 0.073$ cum. Rate from s.no. 10 above	cum	0.054	5159.15	278.59
		Cement mortar 1:3 (1 cement : 3 coarse sand) (F)	cum	0.010	3892.89	38.93
		b) Labour				
		Mason (brick layer) 1st class	day	0.33	461	152.13
		Mason (brick layer) 2nd class	day	0.33	401	132.33
		Beldar	day	0.33	311	102.63
		Coolie	day	0.22	311	68.42
						773.03
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			115.95
		d) Royalty and carriageway				
		Cairrageway of Kerbstone 10 km	350nos	4	1165.37	13.32
		e) Add Labour cess 1% on above	@1.0%			9.02
		f) Add GST 0% on above	@0.0%			0.00
		g) Total per meter				911.32
13	Sum serial no. 7 and 12 above)	KERB STONE 300 x 300 x 150 mm : Made of M - 25 Precast Conc. Including 100 mm thk P.C.C Subbase (this is the kerb stone required around the boundary wall and is independent and not part of the Pathways or Roadwork) Data for 1 meter				
		Details of cost of 1 Rm				
		PCC (1:4:8), ($1 \text{ Rm} \times 0.25 \times 0.10 = 0.025$ cum) rate as per serial no. 7 above	cum	0.025	3941.53	98.54
		KERB STONE 300 x 300 x 150 mm : (1 Rm cost from above)	RM	1.000	911.32	911.32
		Total cost of Per Running Meter				1009.86

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
14	XIII, S.No. 39, pg 160	Construction of granular sub-base by providing Close graded Granular subbase Grading-III material as per table 400-1, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density complete as per Clause 401 of MoSRT&H Specifications for Road & Bridge works (4th Revision) .Data for 300 cum				
		a) Material				
		9.5 mm to 4.75 mm @ 35 per cent	cum	134.4	704.76	94719.74
		4.75 mm to 2.36 mm @ 12.5 per cent	cum	48	638.1	30628.80
		2.36 mm below @ 52.5 per cent	cum	201.6	628.57	126719.71
		Cost of water	KL	18	20	360.00
		Total				252428.26
		b) Labour				
		Mate	day	0.48	401	192.48
		Mulia skilled	day	2	351	702.00
		Mulia unskilled	day	10	311	3110.00
		Total				4004.48
		c) Machinery				
		Motor Grader 110 HP @ 50 cum per hour	hour	6	1343.48	8060.88
		Vibratory roller 8 -10 tonne capacity	hour	6	864.35	5186.10
		Tractor - Rotavator	hour	12	210.44	2525.28
		Water tanker 6 KL capacity	hour	3	506.09	1518.27
		Total				17290.53
		Total (a+b+c)				273723.27
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			41058.49
		d) Royalty & Carriage				
		9.5 mm to 4.75 mm @ 35 per cent	cum	134.4	631.67	84896.45
		4.75 mm to 2.36 mm @ 12.5 per cent	cum	48	631.67	30320.16
		2.36 mm below @ 52.5 per cent	cum	201.6	631.67	127344.67
		d) Add Labour cess 1% on above	@1.0%			5573.43
		Total (a+b+c)/300				1876.39
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM				1876.39
15	XIII, S.No. 42, pg 166	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoSRT&H Specifications for Road & Bridge works) .Data for 225 cum				
		a) Material				
		45 mm to 22.4 mm@ 30 per cent	cum	89.1	639.05	56939.36
		22.4 mm to 2.36 mm @ 40 per cent	cum	118.8	789.52	93794.98
		2.36 mm to 75 micron@ 30 per cent	cum	89.1	628.57	56005.59
		Cost of water	KL	18	20	360.00
		Total				207099.92
		b) Labour				
		Mate	day	0.48	351	168.48
		Mulia skilled	day	2	351	702.00
		Mulia unskilled	day	10	311	3110.00
		Total				3980.48
		c) Machinery				
		Wet mix plant of 75 tonne hourly capacity	hour	6.6	900.87	5945.74
		Electric generating set 125 KVA	hour	6	786.96	4721.76
		Front end loader 1 cum capacity	hour	6	452.17	2713.02
		Paver finisher Mechanical 100TPH	hour	6	642.61	3855.66
		Vibratory roller 8 - 10 tonne	hour	3.9	864.35	3370.97
		Water tanker 6 KL capacity	hour	3	506.09	1518.27
		Tipper	tonne.km	495	2.17	1074.15

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
		Add 10 per cent of cost of carriage to cover cost of loading and unloading				107.42
		Total				23306.98
		Total (a+b+c)				234387.38
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			35158.11
		d) Royalty & Carriage				
		45 mm to 22.4 mm@ 30 per cent	cum	89.1	631.67	56281.80
		22.4 mm to 2.36 mm @ 40 per cent	cum	118.8	631.67	75042.40
		2.36 mm to 75 micron@ 30 per cent	cum	89.1	631.67	56281.80
		d) Add Labour cess 1% on above	@1.0%			4571.51
		Total (a+b+c)/225				2052.10
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM				2052.10
16	Sum serial no. 7 and 8 and 14 and 15 above)	Drop off Finished in GRANITE COBBLES including 200mm thick GSB, 200 mm thk WMM, and 100mm thick PCC subbase. Data For Sqm				
		Earth work (1 x 1 x 0.5=0.5 cum) rate as per serial no. 8 above	cum	0.5	115.59248	57.80
		GRANITE COBBLES inclucing FOR (MR)	sqm	1.00	2000	2000.00
		OH @15% ON installation				300.00
		Instalation charges @10%				200.00
		PCC (1:4:8), (1 x 1 x 0.10 = 0.10 cum) rate as per serial no. 7 above	cum	0.10	3941.53	394.15
		GSB- (1 x 1 x 0.2 = 0.20 cum) rate as per serial no. 14 above	cum	0.20	1876.39	375.28
		WMM - (1 x 1 x 0.20 = 0.20 cum) rate as per serial no. 15 above	cum	0.20	2052.10	410.42
		Total cost of Per Sqm				3737.65
17	N.S.	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gates (data for 0.218 quintal)				
		Mild Steel plates	quintal	0.218	6000	1308.00
		Welding by electric plant 60 cm	cm	60	2	120.00
		Applying priming cost 0.6 sq.m.	sqm	0.6	64.3602	38.62
		Total				1466.62
		b) Labour				
		Blacksmith (1st class)	day	0.7	351	245.70
		Beldar	day	0.5	351	175.50
		Bandhani	day	0.25	311	77.75
		Labour for fitting and fixing of M.S. Gates as per approved design incl. cost of all materials complete	sq.m.	1	67.4	67.40
		Cost of to and from transportation asuuming 50km Transportation one side cost per 1000 kg	kg	21.8	1.31	28.56
		Total				594.91
		Total (a+b)				2061.52
		c) Overhead Charges @15 % on (a+b)	@15.0%			309.23
		Total (a+b+c)				10875.01
		d) Add Labour cess 1% on above	@1.0%			108.75
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate 0.218 quintal				10983.76
		Cost per kg				109.84
17.1		Cost for 1 vehicular gate (2.4m high, 6m wide) i.e., 2700 kg			say	296561.59
17.2		Cost for 1 pedestrian gate (2.4m high, 3m wide) i.e., 1800kg			say	197707.73
		Supplying ,fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specification. Unit - 1 MT Taking Output = 1 MT				
		a) Material				
		HYSD bars including 5 percent overlaps and wastage	MT	1.05	61206.78	64267.12
		Binding wire	kg	8	65.53	524.24
		b) Labour				
		Labour for cutting ,bending, shifting to site, tying and placing in position				

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
18	VIII, S.No. 9, pg 44	Mate	nos	0.44	351	154.44
		Blacksmith (special)	nos	3	461	1383.00
		Man mulia	nos	8	401	3208.00
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			10430.52
		Total (a+b+c)				79967.32
		d) Royalty & Carriage				
		HYSD bars including 5 percent overlaps and wastage	MT	1.05	161.72	169.81
		e) Add Labour cess 1% on above	@1.0%			801.37
		f) Add GST 0% on above	@0%			0.00
		Rate per MT				80938.50
		Rate per 1 Quintal				8093.85
		Extra for labour @15% for works below 1.5m to 4.5m				92.39
		Rate per 1 Quintal for 1.5m to 4.5m depths				8186.24
		i) Ground floor				
		Material Cost				64791.36
		Labour Cost				4745.44
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			10430.52
		Add Royalty & Carriage				169.81
		Total				80137.12
		e) Add Labour cess 1% on above	@1.0%			801.37
		Rate per MT				80938.50
		ii) First floor				
		Material Cost				64791.36
		Labour Cost				5457.26
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			10537.29
		Add Royalty & Carriage				169.81
		Total				80955.71
		e) Add Labour cess 1% on above	@1.0%			809.56
		Rate per MT				81765.27
		iii) Second floor				
		Material Cost				64791.36
		Labour Cost				6275.84
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			10660.08
		Add Royalty & Carriage				169.81
		Total				81897.09
		e) Add Labour cess 1% on above	@1.0%			818.97
		Rate per MT				82716.06
19	NS	Mint Sand stone 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.				
		a) Material				
		25mm thick Mint sand stone slabs = 10 sqm.Add 15% wastage = 1.50 sqm.Total = 11.50 sqm.				
		Mint sandstone slab 25mm thick (rough cheseled)	sqm	11.5	1614.6	18567.90
		Carriage of Stone blocks white & red sand stone	cum	2.875	1091.34	3137.60
		Cement mortar 1:3 (1 cement :3 coarse sand)	cum	0.138	3892.89	537.22
		Cement mortar for pointing.	L.S.	50	2	100.00
		Total				22342.72
		b) Labour				
		Mason special	day	6.5	461	2996.50
		Mason second class	day	6.5	401	2606.50
		Man Mulia	day	4.3	351	1509.30
		Skilled Beldar	day	10.8	311	3358.80
		Add 1% water charges				328.14
		Total				10799.24
		Total (a+b)				33141.96
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			3314.20
		Total (a+b+c)/10=				3645.62
		d) Add Labour cess 1% on above	@1.0%			36.46

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
		e) Add GST 0% on above	@0.0%			0.00
		Total Rate Per sqm			say	3682.07
20	X, S.No. 3, pg 50	Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:6) in foundation and plinth per cum.				
		a) Material				
		K.B. Brick 25cm x 12cm x 8cm	1000 Nos	350	4638.30	1623.41
		Sharp sand (Screened and Washed)	cum	0.28	343.4	96.15
		Cement	quintal	0.672	491.74	330.45
		Total				2050.01
		b) Labour				
		Mason special	day	0.35	461	161.35
		Mason second class	day	1.05	401	421.05
		Man Mulia	day	1.41	351	494.91
		Women mulia	day	1.41	351	494.91
		Preparing mortar and getting water etc.	day	0.14	311	43.54
		Total				1615.76
		Total (a+b)				3665.77
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			366.58
		Total (a+b+c)				4032.34
		d) Royalty & Carriage				
		K.B. Brick 25cm x 12cm x 8cm	1000 Nos	350	681.735	238.61
		Sharp sand (Screened and Washed)	cum	0.28	149.67	41.91
		Cement	quintal	0.672	16.172	10.87
		e) Add Labour cess 1% on above	@1.0%			43.24
		f) Add GST 0% on above	@0.0%			0.00
		Total Rate Per CUM				4366.96
21	Sum (serial no. 7, 8, 10, 18, 19 and 20 above)	Kund steps Finished in 100 mm thick Mint Sand Stone including brick masonry and PCC and RCC waist slab subbase.				
		Earth work (1 X 1 x 0.60 = 0.60 cum) rate as per serial no. 8 above	cum	0.60	133.92	80.35
		Mint SandStone (1 x 1) rate as per serial no. 19 above	Sqm	1.0	3682.07	3682.07
		PCC (1:4:8), (1 x 1 x 1= 0.1 cum) rate as per serial no. 7 above	cum	0.1	3941.53	394.15
		Brick Masonry (1 x 0.23 x 1 = 0.23 cum) rate as per serial no. 20 above	cum	0.230	4366.96	1004.40
		HYSD Steel (12 x 2 x 0.617 = 7.40 kg) rate as per serial no. 18 above	Kg	14.800	80.94	1197.89
		RCC Work M-25 (1 x 1 x 0.10=0.10 cum) rate as per serial no. 10 above	cum	0.100	5159.15	515.92
22	NS	Total cost of Per Sqm.			say	7000.00
		Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 200 mm dia. R.C.C. pipe. Data for 10 meter				
		a) Material				
		R.C.C. pipes NP2 class 200 mm dia (in 2 m. length = 5 Nos.)	Meter	10	312.50	3125.00
		R.C.C. collars NP2 class 200 mm dia 5 Nos.	each	5	50	250.00
		Portland Cement (OPC-43 grade)	Tonne	0.009	4917.4	44.26
		Fine sand for 5 joint = 0.0024x5 =0.012 cum	cum	0.012	41.90	0.50
		Total				3419.76
		b) Labour				
		Mason special	day	0.35	461	161.35
		Mason second class	day	1.05	401	421.05
		Beldar	day	1.41	351	494.91
		Bhisti	day	1.41	351	494.91
		Total				1572.22
		Total (a+b)				4991.98
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			499.20
		Total (a+b+c)/10=				549.12
		d) Add Labour cess 1% on above	@1.0%			5.49
		e) Add GST 0% on above	@0.0%			0.00

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
		Total Rate Per meter				554.61
23		Stormwater drains 100 mm thick PCC And RCC pipe 200 mm dia and Earth work and Back Filling., with catch basins of chamber 50x45x60 cm with bricks in cement mortar 1:4 including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design at every 15mc/c				
		Details of cost of 30m				
		Earth work (30 X 0.80 x 0.7) = 16.80 cum) rate as per serial no. 8 above	cum	16.80	115.59248	1941.95
		PCC (1:4:8), (30 x 0.4 x 0.10= 1.2 cum) rate as per serial no. 7 above	cum	1.2	3941.53	4729.84
		RCC pipe 200 mm dia (1 m) rate as per serial no. 22 above	Rm	30.00	554.61	16638.27
		Back filling rate as per serial no. 6 above	cum	15.12	110.33	1668.20
		Catchbasin 2Nos (within 30m)				
		Excavation (2.11x2.06x0.75=3.26cum x 2 nos)	cum	6.52	115.59	753.65
		Back filling rate as per serial no. 6 above	cum	5.87	110.33	647.41
		Cement concrete 1:4:8 1.11mx1.06mx0.15 m= 0.176 cum Say 0.18 cum x 2nos rate as per serial no. 7 above	cum	0.36	3941.53	1418.95
		Brickwork 2.82 m x 0.23m x0.45 m = 0.29 cum x 2 nos	cum	0.58	4455.58	2584.24
		12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement				
		Wall : 1.90x0.45 m = 0.855 sqm Bed : 0.45x0.50 m = 0.225 sqm Total= 1.080 sqm x 2 nos Rate as per s.no.28 below	sqm	2.16	164.39	355.08
		Finishing with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 2.82x0.23x0.15 m = 0.097 cum Say 0.10 cum x 2 nos (Rate as per serial no 10 above)	cum	0.20	5159.15	1031.83
		Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	2.00	650.00	1300.00
		Carriage of R.C.C. grating	each	2.00	14.00	28.00
		Fixing R.C.C. grating	each	2.00	12.00	24.00
		OHT@15% ON RCC gratings				202.80
		1% labous cess on RCC gratings and OH				15.55
		Total cost for 30m				33339.77
		Total cost of Per Rm.				1111.33
		Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				
		Details of cost for a truss 7.6m clear span (weight = 3.95 quintal)				
		a) Material				
		(i) Principal rafter (T-iron) 100x100x10mm @15kg/m = 142.50Kg+Struts (angles)40x40x6mm 2x1.35=2.70m @ 3.5kg/m = 9.45kg.Total =151.95kg+Add wastage @ 5% = 7.60kg Total = 159.55kg. = 1.60q				
		Structurals such as tees,angles channels and R.S. joists	quintal	1.6	6000	9600.00
		(ii) Ties (flats) 50x12mm 2x2.7 = 5.4m @4.7kg/m = 25.38kg+Ties central (flats) 50x10mm 1x2.28 = 2.8m @3.90kg/m = 10.92kg.+Braces (flats)40x10mm 2x1.84 = 3.68m @3.9kg/m = 14.35kg.Total = 50.65kg+Add wastage @ 5% = 2.53kg. Total = 53.18kg. = 0.53q				
		Flats exceeding 10 mm in thickness	quintal	0.53	6000	3180.00

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
24	NS	(iii) Gusset plates 10mm thick 1x0.74x0.35m =0.259sqm.+ shoe 4x0.46x0.46 = 0.845sqm.Total = 1.104 sqm. 1.104sqm.@ 78.4kg/m = 86.55kg.12mm plates at the point of principal rafter and strut-2x0.3x0.2 = 0.12sqm.+ Tie beam, brace and strut-2x0.5x0.3 = 0.30sqm.+Sole plates 2x0.46x0.46 = 0.42sqm.+Anchor plate-2x0.46x0.1 = 0.09sqm.Total = 0.93 sqm.Say 1.00 sqm.1.0sqm. @ 94.4kg/m = 94.40kg.Total = 180.95kg.Add wastage @ 5% = 9.05kg.Total = 190.00kg or 1.90q Mild steel plates (iv) 16mm dia. 50mm long rivets =56 nos.+Add wastage @ 5 % = 2.8 nos.Total = 58.8 nos. Mild steel rivets v) 20mm dia. holding down bolts 4 Nos.x460mm = 1840mm + Add wastage @ 5% = 92mm Total =1932 mm 20 mm dia holding down bolts Total b) Labour Mason special Mason second class Skilled Beldar Beldar Total Total (a+b) c) Overhead Charges @ 15 % on (a+b) Total (a+b+c) d) Add Labour cess 1% on above Total cost for 3.95 quintal <i>cost of per kg</i>	quintal	1.9	6000	11400.00
	NS	Supplying and filling of excavated earth from borrow pits including filling of same earth in trenches pits, foundations, embankments, etc., including ramming and watering of the earth in layers not exceeding 20 cm including carriageway upto 5km, loading/ unloading, royalties and overheads, inclusive of cost of earth				
25	A	Excavation for 10 cum	cum	10		
		a) Machinery				
		Hydraulic Excavator (60cum/hr)	hours	0.16667	730.43	121.74
		b) Labour				
		Mate	day	0.32	401	128.32
		Coolie	day	1.2	351	421.20
			₹ per 10cum			671.26
	B	Sub Total (A)	₹ per cum			67.13
		Filling for 10 cum	cum	10		
		a) Labour				
		Mate	day	0.2	401	80.20
		Coolie	day	2.5	351	877.50
		Bhisti	day	0.2	401	80.20
			₹ per 10cum			1037.90
	C	Sub Total (B)	₹ per cum			103.79
		Sub Total (A+B)				170.92
		c) Over Head Charges	@15.0%			25.64
	D	d) Labour cess	@1.0%			1.71
		Sub Total				198.26
		e)Carriage of materials upto 5 km	cum	1	149.67	149.67
	E	f) Royalty for good earth	cum	1	35	35.00
		Total				382.93
		Add 1% water charges (a+b+c+d+e+f)				3.83
	F	Total rate per cum for filling of excavated earth				386.76
		g) Add GST	@0.0%			0.00
		Total Rate Per CUM				387.00

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
26	NS	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:Details of cost per 8 sqm				
		Glass mosaic tiles (20 mm x 20 mm x 4mm)				
		Add for wastage 2.5% = 0.2 sqm Total: 8.20 sqm				
		a) Material				
		Glass mosaic tiles (20 mm x 20 mm x 4 mm)	Sqm	8.2	2049	16801.80
		Tile fixing chemical adhesive	Kg	20	8.7	174.00
		Cement Polymer Grout Compound	Kg	10	16	160.00
		Acid for cleaning tiles	Litter	4	18	72.00
		b) Labour				
		Mason (brick layer) 1st class	day	1.6	461	737.60
		Coolie	day	1.6	351	561.60
		Add 1% water charges				12.99
		Total				18519.99
		c) Overhead Charges @ 15 % on (a+b)	@15.0%			2778.00
		d) Add Labour cess 1% on above	@1.0%			212.98
		Total (a+b)/8=				2688.87
		e) Add GST	@0.0%			0.00
		Total Rate Per sqm				2689.00
27		Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:6) in foundation and plinth per cum.				
		a) Material				
		K.B. Brick 25cm x 12cm x 8cm	1000	350.00	4638.30	1623.41
		Sharp sand (Screened and Washed)	cum	0.28	46.67	13.07
		Cement	quintal	0.672	491.74	330.45
			sub-Total			1966.92
		b) Labour				
		Mason special	day	0.35	461	161.35
		Mason second class	day	1.05	401	421.05
		Man Mulia	day	1.41	351	494.91
		Women mulia	day	1.41	351	494.91
		Preparing mortar and getting water etc.	day	0.14	311	43.54
			sub-Total			1615.76
			Total (a+b)			3582.68
		c) Overhead Charges @ 15 % on (a+b)				537.40
		d) Royalty and cairrageway				
		Cairrage way of Bricks	1000	350	681.74	238.61
		Cairrage way of cement	quintal	0.672	16.172	10.87
		Cairrage way of sand	cum	0.28	149.67	41.91
			sub-Total			291.38
			Total (a+b+c+d)			4411.47
		e) Add 1% Labour cess				44.11
		Total (a+b+c+d+e) Rate per cum				4455.58
28		12mm. thick cement plaster (1:3) on brick work per 1 Sqm				
		a) Material				
		Sand (Screened and washed)	cum	0.015	343.4	5.15
		Cement	quintal	0.0715	491.74	35.16
		b) Labour				40.31
		Man mulia for mixing sand and cement in small	nos	0.02	351	7.02
		Mason 2 nd class	nos	0.14	401	56.14
		Man Mulia	nos	0.05	351	17.55
		Women Mulia	nos	0.05	351	17.55
						98.26

S.No.	SOR Ref	Description	Unit	Qty.	Rate	Amount
		c) Overhead Charges @ 15 % on (a+b)				138.57
		d) Royalty and cairrageway				20.79
		Cairrage way of cement	quintal	0.0715	16.172	1.16
		Cairrage way of sand	cum	0.015	149.67	2.25
			sub-Total			3.40
			Total (a+b+c+d)			162.76
		e) Add 1% Labour cess				1.63
			Total (a+b+c+d+e) Rate per cum			164.39
29		Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design over prepared RCC base of M25 grade concrete for water body area including cost of RCC works, The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved				
		Details of cost of 1 sqm				
		Cost of RCC work 0.15 mm thick = $1 \times 1 \times 0.15 = 0.15\text{cum}$	cum	0.15	5159.15	773.87
		Cost of laying of Glass mosaic tiles as per Rate at item 30 below	sqm	1	2343.42	2343.42
			Rate per sqm			3117.29
30		Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design				
		Glass mosaic tiles for 8 sqm				
		a) Material				
		Glass mosaic tiles (20 mm x 20 mm x 4mm)	sqm	8.2	2049	16801.80
		Add for wastage 2.5% = 0.2 sqm Total: 8.20 sqm				
		Tile fixing chemical adhesive	kg	20	8.7	174.00
		Cement Polymer Grout Compound	kg	10	16	160.00
		Acid for cleaning tiles	litre	4	18	72.00
		b) Labour				
		Mason (brick layer) 1st class	day	1.6	461	737.60
		Coolie	day	1.6	311	497.60
						18443.00
		c) Overhead Charges @ 15 % on (a+b)				74.64
		d) Royalty and cairrageway				
		Cairrage way of Glass mosaic tiles	180.0sqm	8.2	967.27	44.06
			sub-Total			44.06
			Total (a+b+c+d)			18561.70
		e) Add 1% Labour cess				185.62
			Rate for 8 sqm			18747.32
			Rate OF GLASS MOSAIC TILES for 1 sqm			2343.42

Raw Material Rates and T and P

basic Rates and charges as applicable for PURI district as per office memorandum file no 13827 dated 16.9.2017 with escalation of 10.79% as per wspi

S.No.	Ref	Description	Unit	Qty	Rate
RAW MATERIALS					
1	31 b	Hand broken granite stone 4cm size	cum	1	565.76
2	18	Screened and washed sharp sand for mortar	cum	1	343.4
3	MR-1	Cement OPC	Quintal	1	491.74
4	35 a	Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve) Crusher Broken	cum	1	1007.62
5	39a	Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve) Crusher Broken	cum	1	1066.67
6	125	Binding Wire	kg	1	65.53
7	MR-2	HYSD Bars- SAIL less GST @18%, Average price for 12mm bar	MT	1	61206.78
8	3	Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:6) in foundation and plinth per cum.	NOS	1000	4638.30
9	18	Sharp sand (Screened and Washed)	cum	1	46.67
10	55	Laterite Stone rough dressed	cum	1	544.76
11	57	Bamboo 1ST class 7Cm, to 10Cm. dia & above 6m, long.	Nos	1	106.22
12	120	Wire Nails	kg	1	89.78
13	MR-3	Cost of CNC cutting per sqm as per market	sqm	1	323
14	DSR item	Cost of fitting	sqm	1	120
15	DSR item	Primer and paints	sqm	1	120
16	DSR item	Straw in Bundle	NOS	100	200
17	L.S.	a) cost of borrow pits (LS)	CUM	1	19
18	39 A	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)	cum	1	704.76
19	40	Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	cum	1	638.1
20	39 B	Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	cum	1	628.57
21	LS.	Cost of water	KL	1	20

Raw Material Rates and T and P

basic Rates and charges as applicable for PURI district as per office memorandum file no 13827 dated
16.9.2017 with escalation of 10.79% as per wspi

S.No.	Ref	Description	Unit	Qty	Rate
22	30	Granite Stone broken metal 45mm. Size (Passing through 53mm sieve & retained on 26.5mm sieve)	cum	1	639.05
23	34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)	cum	1	789.52
24	MR-4	GRANITE COBBLES (MR)	sqm	1	2000
25	MR-5	Mild Steel	Quintal	1	6000
26	DSR item	priming cost 0.6 sq.m.	sqm	1	64.36
27	DSR item	Mint sandstone slab 25mm thick (rough chiseled)	sqm	1	1614.6
28	DSR item	Carriage of Stone blocks white & red sand stone	cum	1	1091.34
29	DSR item	Cement mortar for pointing.	L.S.	1	2
30	DSR item	R.C.C. pipes NP2 class 200 mm dia (in 2 m. length = 5 Nos.)	RM	1	312.5
31	DSR item	R.C.C. collars NP2 class 200 mm dia 5 Nos.	Each	1	50
32	DSR item	Glass mosaic tiles (20 mm x 20 mm x 4 mm)	sqm	1	2049
33	DSR item	Tile fixing chemical adhesive	KG	1	8.7
34	DSR item	Cement Polymer Grout Compound	KG	1	16
35	DSR item	Acid for cleaning tiles	LITTER	1	18
36	DSR item	Glass mosaic tiles	sqm	1	2049
37	DSR item	Tile fixing adhesive	kg	1	8.7
38	DSR item	Cement Polymer Grout Compound	kg	1	16
39	DSR item	Acid for cleaning tiles	litre	1	18
EQUIPMENTS PLANTS AND MACHINERIES					
1	65 a	Concrete Mixer 04/0.28 cum	hour	1	153.91
2	76	Generator 33 KVA	hour	1	208.7
3	3	Motor Grader 3.35meter blade GSB/WMM 50 cum/hour	hour	1	1343.48
4	9	Vibratory Roller 8-10 tonne 60 cum/hour	hour	1	864.35
5	13+14	Tractor - Rotavator	hour	1	210.44
6	12	Water tanker 6 KL capacity	hour	1	506.09
7	21	Wet mix plant of 75 tonne hourly capacity	hour	1	900.87
8	78	Electric generating set 125 KVA	hour	1	786.96
9	7	Front end loader 1 cum capacity	hour	1	452.17
10	31	Paver finisher Mechanical 100TPH	hour	1	642.61
11	8	Tipper	tonne km	1	2.17
12		Welding by electric plant 60 cm	CM	1	2

Raw Material Rates and T and P

basic Rates and charges as applicable for PURI district as per office memorandum file no 13827 dated 16.9.2017 with escalation of 10.79% as per wspi

S.No.	Ref	Description	Unit	Qty	Rate
13		Cost of to and from transportation assuming 50km Transportation one side cost per 1000 kg	KG	1	1.31
14	III/pg-15	Carriage of materials upto 10 km	Km	10	359.21

Royalty and Carriage

1		HYSD bars including 5 % overlaps and wastage	MT	1	16.17
2		(i)Granite metal	cum	1	631.67
3		(ii)Sand/ Earth upto 5km	cum	1	149.67
4		(iii)Cement	Quintal	1	16.17
5		(i)Granite chips 10 mm	cum	1	631.67
6		(ii)Granite chips 20 mm	cum	1	631.67
7		(i)Granite chips 4.7 mm	cum	1	631.67
8		(ii)Granite chips 12 mm	cum	1	631.67
9		(i)Brick	Per	1000	681.74
10		(i)Rough stone Granite	per	1000	631.67
11		(i)Carriage of White Cement	Quintal	1	1.23
12		(ii)Carriage of Tile	Quintal	1	37.08
13		(i)Granite chips 12 mm	cum	1	631.67
14		(iv)Marble Chips	Quintal	1	16.17
15		(vi)Marble powder	Quintal	1	16.17
16		(i)Carriage of Tile	sqm	180	967.27
17		(i)Laterite stone	cum	1	593.67
18		Ordinary clay,slit,rehmatti, brick-earth,ordinary earth,moorum	cum	1	35

Rate Analysis for Fire Protection Paint					
S.No.	Description	thk of web and flange	I section	Qty	Unit
A	Surface Area of 1m length of 350mm x 450mm (10mm) I section	0.01	0.35	0.45	2.28 sqm
B	Weight per running metre of I section	0.01	0.35	0.45	89.00 kg
C	Assuming 0.57 litre/ sqm coverage, quantity of paint required from 13.58 dsr	0.6l/sqm		1.2996 l	
D	Rate of paint as per DSR			260	Rs/l
E	Overall cost of paint for 1m of above section			337.896	Rs.
F	cost of labour for 10 sqm				
	1) painter	0.54 day	461	248.94	
	2) beldar	0.54 day	401	216.54	
	sub total			465.48	
	rate per sqm			46.548	
	cost of labour	46.5Rs/sqm		106.129	
G	Cost of Surface preparation	50.0Rs/sqm		114	Rs.
H	Cost of Scaffolding	100.0Rs/sqm		228	Rs.
	Sub Total			786.025	
I	Overheads @15%			117.904	
J	Freight for supply of paint	10.0Rs/litre		12.996	
K			Total for 89kg	916.925	
L			Cost per kg	10.3 Rs./kg	
M			Cost per sqm	402.16 Rs/sm	

Market Rate -1				
Analysis of CEMENT Prices (Attached note by EE, Puri(R&B)				
S.No.	Brand	Rate inclusive GST 28%	Rate Excluding GST 28%	Unit
1	DSP Cement	654	510.94	₹ per Qntl
2	Ultratech Sup. Cement	654	510.94	₹ per Qntl
3	Konark Cement	604	471.88	₹ per Qntl
	Average Price		497.92	₹ per Qntl
	Deducting empty cement bag		6.18	
	Net Price		491.74	₹ per Qntl

MR -2

Analysis of steel rates from SAIL as on 05/2021 (Attached price list)

Length in mtr/piece	8mm		10mm		12mm		16mm		20mm		
12											
Rate per piece	353.00		537.00		767.00		1361.00		2090.00		
@	0.395	kg/mtr	0.62	kg/mtr	0.888	kg/mtr	1.578	kg/mtr	2.465	kg/mtr	
weight /piece	4.74	kg	7.44	kg	10.66	kg	18.94	kg	29.58	kg	
cost per kg	74.47	Rs/kg	72.18	Rs/kg	71.95	Rs/kg	71.86	Rs/kg	70.66	Rs/kg	
cost per MT	74470	Rs/Ton	72180	Rs/Ton	71950	Rs/Ton	71860	Rs/Ton	70660	Rs/Ton	361120
									Average		72224.00
									GST	1.18	61206.78

ANNEXURES

ANNEXURES A SOR 2014- ODISHA

Government of Odisha
Works Department

Office Memorandum

File No.07556900012013- 13827/W dated, 16. 9.17

Sub: Revision of Schedule of Rates-2014 on GST.

After careful consideration Government have been pleased to approve the revised Schedule of Rates-2014 consequent upon implementation of Goods & Services Tax (GST) with effect from 01.07.2017.

1. The revised Schedule of Rates-2014 is effective from 1st July, 2017
2. The Works Department Office Memorandum No.12845/W dt.10.11.2014 stands modified accordingly.
3. This has been concurred in by the Finance Department vide their U.O.R. No 56-WFI dt.24.08.2017.

Encl: As above

Sabu
S. M. Sabu
EIC - cum- Secretary to Government

Memo No. 13828

W. dated. 16. 9.17

Copy forwarded to P. S. to Hon'ble Chief Minister, Odisha for information and necessary action.

Sabu
S. M. Sabu
FA - cum- Addl Secretary to Government

Memo No. 13829

W. dated. 16. 9.17

Copy forwarded to OSD to Chief Secretary, Odisha / P.S. to Development Commissioner-cum-Additional Chief Secretary, Odisha / P.S. to Principal Secretary, Finance Deptt for information and necessary action.

Sabu
S. M. Sabu
FA - cum- Addl Secretary to Government

(P.T.O.)

Memo No. 13830

W. dated 16.9.17

Copy forwarded to the Principal Accountant General (A&E) Odisha, Bhubaneswar / Principal Accountant General (E & S R Audit), Odisha Puri Branch, Puri for information and necessary action.

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government

Memo No. 13831

W. dated 16.9.17

Copy forwarded to All Departments / Managing Director, OB & CC Ltd, Bhubaneswar / Managing Director, OCC Ltd., Bhubaneswar for information and necessary action

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government

Memo No. 13832

W. dated 16.9.17

Copy forwarded to EIC (Civil), Odisha / All Chief Engineers, Odisha / All Superintending Engineers / All Executive Engineers (All under Works Department) for information and wide circulation among subordinate offices

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government

Memo No. 13833

W. dated 16.9.17

Copy forwarded to the M/S Luminous Infoways Pvt. Ltd., DCB-615/616/617 6th Floor DLF, Cyber City, Chandaka Industrial Estate, Bhubaneswar-751024 for information and necessary action.

They are requested to upload it in the web-site of Works Department

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government

Memo No. 13834

W. dated 16.9.17

Copy forwarded to the Director, Printing Stationary & Publication, Odisha, Cuttack for information and necessary action.

He is requested to publish this amendment in the next issue of Odisha Gazette.

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government

Memo No. 13835

W. dated 16.9.17

Copy forwarded to A/C-I Section / A/C-II Section / Road Section / Plan Section / Building Section / Budget Section / N Hs. Section / FC & AA Section / PPP Cell / EAP Cell Works Department for information and necessary action

Sahabu 16/9/2017
FA - cum- Addl. Secretary to Government



GOVERNMENT OF ODIsha

**BASIC RATE OF MATERIALS FOR
THIRTEEN UN-DIVIDED DISTRICTS,
RATE OF LABOUR, CONVEYANCE AND
SERVICE CONTRACT FOR PLANTS AND
MACHINERIES**

FOR -2014 (POST GST)

WORKS DEPARTMENT

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CHAPTER - I

POST GST BASIC RATE OF MATERIALS FOR 2014 (FOR THIRTEEN UN-DIVIDED DISTRICTS)

Sl. No	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani	
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	3089.35	3148.94	3229.79	3021.28	2778.72	2877.45	2736.17	2877.45	2757.45	2621.28	3014.47	2867.23	3014.47	
2	Well burnt clamp burnt bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	2780.43	2893.62	2906.38	2906.38	2561.70	2517.87	2480.85	2517.87	2510.64	2652.77	2857.77	2726.81	2852.77	
3	K.B. bricks (25 Cm. x 12Cm. x 8Cm.) strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	4844.26	4535.30	4844.26	4446.81	3659.57	3680.00	3500.43	3680.00	3523.40	3420.43	3932.77	3754.04	3932.77	
4	K.B. bricks (23 Cm. x 11Cm. x 8Cm.) strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	4119.15	4042.55	4297.87	4306.38	3229.79	3327.66	3148.94	3327.66	3310.64	3462.98	3355.74	3359.15	3462.98	
5	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %.	1000 Nos	4144.68	3914.89	4502.13	4178.72	4042.55	3574.47	3872.34	3926.17	3906.38	3557.45	3935.17	4091.06	3913.19	
6	Fly ash blocks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %.	1000 Nos	3529.36	3787.23	3948.09	3992.98	3659.57	3464.26	3506.38	3550.64	3506.38	3404.26	3483.40	3495.32	3501.28	
7	Fly ash blocks of 30 Cm. x 20 Cm. x 15 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %.	Each	12.77	13.62	13.62	13.62	14.47	14.47	13.62	14.47	14.47	11.86	11.91	11.91	11.91	
8	Cement concrete solid Block machine mixed and Hydraulic compressed having crushing strength not less than 75kg/cm ² .															
a.	400mm x 200mm x 200mm size	Each	22.05	22.05	22.05	22.05	24.41	24.41	23.62	23.62	19.69	22.05	22.05	22.05	22.05	
b.	400mm x 150mm x 200mm size	Each	17.32	18.11	18.11	18.11	18.11	18.11	17.32	17.32	15.75	18.11	18.11	18.11	18.11	
c.	400mm x 100mm x 200mm size	Each	11.81	12.60	12.60	12.60	13.39	13.39	13.39	13.39	14.02	12.60	12.60	12.60	12.60	
d.	300mm x 200mm x 150mm size	Each	13.39	12.60	13.39	14.96	14.96	14.96	14.96	14.96	14.17	15.75	15.75	15.75	15.75	
e.	300mm x 150mm x 150mm size	Each	11.02	11.02	11.02	11.02	12.60	12.60	11.02	11.02	11.02	11.02	11.02	11.02	11.02	
f.	300mm x 100mm x 150mm size	Each	9.45	9.45	9.45	9.45	9.45	9.45	9.45	9.45	8.66	9.45	9.45	9.45	9.45	
g.	Cement concrete Hollow Blocks machine mixed and Hydraulic compressed having crushing strength not less than 70kg/cm ² .															
a.	400mm x 200mm x 200mm size	Each	19.69	20.47	20.47	20.47	18.90	19.69	20.47	19.59	18.90	21.26	21.26	21.26	21.26	
b.	400mm x 150mm x 200mm size	Each	14.96	15.75	15.75	15.75	14.96	15.75	15.75	15.75	12.60	14.17	14.17	14.17	14.17	
c.	400mm x 100mm x 200mm size	Each	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	12.60	12.60	12.60	12.60	
d.	300mm x 200mm x 150mm size	Each	11.02	11.02	11.02	11.02	9.45	11.02	11.02	11.02	11.02	12.60	12.60	12.60	12.60	
e.	300mm x 150mm x 150mm size	Each	10.24	10.24	10.24	10.24	11.02	9.45	11.02	11.02	9.45	10.24	10.24	10.24	10.24	
f.	300mm x 100mm x 150mm size	Each	7.87	7.87	7.87	7.87	9.45	8.66	9.45	9.45	7.09	7.87	7.87	7.87	7.87	
g.	10 K.B. bricks Khoa 4 Cm.size	1 Cmn	298.72	322.55	322.55	319.15	297.87	297.87	291.91	297.87	285.11	294.47	276.60	294.47	294.47	
h.	11 Clamp burnt brick Khoa 4 Cm.size.	1 Cmn	257.62	259.57	281.70	281.70	281.70	288.09	241.70	231.49	236.60	240.00	240.00	240.00	240.00	
i.	12 Surki of clamp burnt bricks.	1 Cmn	357.45	348.94	365.53	359.15	369.36	379.57	361.70	372.77	363.40	391.49	372.77	406.81	405.81	
j.	13 Surki of kiln burnt bricks.	1 Cmn	371.05	357.45	401.70	372.77	419.57	401.00	405.11	400.00	417.02	412.77	424.68	424.68	424.68	
k.	Screen washed gravel for concrete (12mm. to 20mm.)	1 Cmn	138.10	133.33	143.81	134.29	128.57	121.90	128.57	123.81	138.10	140.95	140.95	140.95	140.95	
l.	Gravel or pebbles	1 Cmn	45.71	45.71	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52	47.52	
m.	Stone screened Dust passing through 2.36 mm sieve	1 Cmn	80.95	76.19	83.81	83.81	83.81	80.00	83.81	73.33	96.19	96.19	96.19	96.19	96.19	
n.	17 River Single or Barn (12mm. to 20mm.)	1 Cmn	92.38	90.48	92.38	92.38	90.48	93.33	98.10	95.24	113.33	112.38	113.33	113.33	113.33	
o.	18 Segmented and washed sharp sand for mortar	1 Cmn	48.57	46.67	49.52	19.166.52	52.38	52.38	52.38	52.38	56.19	56.19	56.19	56.19	56.19	

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani		
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
19	Sand for filling and road bonding																
20	Clay mortar for masonry work with admixture of sand.	1 Cum	42.86	41.90	44.76	44.76	45.71	45.71	43.81	45.71	43.81	53.33	53.33	53.33	53.33	53.33	
21	Stone lime unslaked.																
22	Shoeling lime unslaked.																
23	Shell lime unslaked.																
24	a) Granite broken stone of size not less than 0.025 Cum. Cum. Stacked	1 Cum.	206.11	200.87	214.85	214.85	221.83	221.83	212.23	221.83	213.97	245.41	245.41	245.41	245.41	245.41	
	b) Granite stone of size not less than 0.0025 Cum. picked up.	1 Cum.	179.91	174.67	187.77	187.77	201.75	201.75	192.14	201.75	192.14	200.87	200.87	200.87	200.87	200.87	
25	Stone other than granite quarried, broken and stacked 0.0015 Cum to 0.003 Cum	1 Cum.	184.76	181.90	192.38	192.38	197.14	197.14	188.57	197.14	190.48	188.57	188.57	188.57	188.57	188.57	
26	Stone other than granite picked up and stacked 0.0015 Cum to 0.003 Cum	1 Cum.	161.90	158.10	168.57	168.57	173.33	173.33	163.81	173.33	166.67	185.71	185.71	185.71	185.71	185.71	
27	Stone other than granite quarried, broken and stacked above 0.003 Cum	1 Cum.	173.33	166.67	180.00	180.00	182.86	182.86	171.43	182.86	176.19	184.76	184.76	184.76	184.76	184.76	
28	Stone other than granite picked up, broken and stacked above 0.003 Cum	1 Cum.	161.90	158.10	168.57	168.57	178.10	178.10	166.67	178.10	171.43	186.67	186.67	186.67	186.67	186.67	
29	Granite Stone broken metal 63mm. size Passing through 99mm. Sieve and retained on 53 mm sieve.																
	a) Crusher broken.	1 Cum.	611.43	619.05	650.48	650.48	664.76	664.76	623.81	664.76	640.95	638.10	638.10	648.57	677.14	708.57	
	b) Hand broken.	1 Cum.	492.38	493.33	517.14	517.14	517.14	517.14	480.95	517.14	495.24	538.10	538.10	538.10	538.10	538.10	
30	Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 45.5mm sieve)																
	a) Crusher broken.	1 Cum.	633.33	639.05	674.29	657.14	686.67	686.67	650.48	686.67	638.10	742.86	742.86	700.95	742.86		
	b) Hand broken.	1 Cum.	491.43	489.52	520.00	520.00	531.43	531.43	507.62	531.43	509.52	563.81	563.81	515.24	563.81		
31	Granite Stone broken metal 45mm. size																
	a) Crusher broken.	1 Cum.	709.52	706.67	746.67	685.71	742.86	742.86	704.46	742.86	709.52	752.38	767.62	724.76	767.62		
	b) Hand broken.	1 Cum.	566.67	564.76	595.24	595.24	603.81	603.81	566.67	603.81	580.95	614.29	614.29	580.95	614.29		
32	Granite Stone broken metal 26.5mm. size (Passing through 45mm sieve & retained on 22.4mm sieve)																
	a) Crusher broken.	1 Cum.	747.62	758.10	794.29	757.14	764.76	764.76	723.81	764.76	733.33	809.52	815.24	815.24	815.24		
	b) Hand broken.	1 Cum.	569.52	573.73	601.90	595.24	608.57	599.52	576.19	608.57	550.95	623.81	623.81	623.81	623.81		
33	Granite Stone broken metal 25mm. size (Passing through 40mm sieve & retained on 20mm sieve)																
	a) Crusher broken.	1 Cum.	761.90	770.48	806.67	795.24	789.52	750.48	789.52	757.14	836.19	836.19	836.19	836.19	836.19		
	b) Hand broken.	1 Cum.	580.95	585.71	614.29	609.52	644.76	560.95	609.52	644.76	514.29	669.52	669.52	669.52	669.52		
34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)																
	a) Crusher broken.	1 Cum.	790.48	789.52	830.48	814.29	812.38	812.38	761.90	812.38	776.19	857.14	872.38	872.38	872.38		
	b) Hand broken.	1 Cum.	605.71	587.52	638.10	638.10	665.71	579.05	609.52	665.71	538.10	701.90	701.90	701.90	701.90		
35	Granite Stone broken stones 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve).																
	a) Crusher broken.	1 Cum.	1000.00	1007.62	1060.00	1060.00	1054.76	1076.19	1028.57	1066.67	1038.10	1092.38	1092.38	1046.57	1092.38		
	b) Hand broken.	1 Cum.	784.76	761.81	823.81	1011.81	894.29	778.10	840.95	880.00	852.38	884.76	884.76	876.19	884.76		
	Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve)																
	a) Crusher broken.	1 Cum.	1033.33	1024.76	1053.82	1053.81	1050.48	1050.48	1056.19	1090.48	1042.86	1100.00	1100.00	1100.00	1100.00	1100.00	

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1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	(b) Hand broken.		1 Cum.	797.14	800.95	842.86	842.86	900.95	783.81	845.71	900.95	861.90	899.05	899.05	882.56	899.05
37	Granite Stone broken chacs (2mm), size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.5mm sieve but whole should pass through 19mm sieve)															
38	Granite Stone broken chips 11.2mm, size (Passing through 13.2mm sieve & retained on 5.6mm sieve)		1 Cum.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a) Crusher broken			1 Cum.	1012.38	1049.52	1107.62	1107.62	1140.95	1095.24	1079.05	1117.14	1050.38	1186.67	1185.67	1091.43	1186.67
b) Hand broken			1 Cum.	828.57	838.10	879.05	879.05	920.95	800.95	869.52	920.95	880.95	929.52	929.52	897.14	929.52
39	Granite Stone broken chips (0mm, size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve))															
a) Crusher broken.			1 Cum.	1048.57	1047.62	1096.19	1096.19	1112.38	1095.24	1045.71	1103.81	1066.67	1128.57	1128.57	1061.81	1128.57
b) Hand broken			1 Cum.	810.48	811.53	855.24	855.24	911.43	793.33	857.14	911.43	871.43	913.33	913.33	889.52	913.33
40	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)		1 Cum.	716.19	704.76	739.05	752.38	772.38	761.90	728.57	772.38	738.10	752.38	775.24	775.24	775.24
(B) Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)			1 Cum.	628.57	628.57	661.90	661.90	684.76	571.43	642.86	684.76	657.14	666.67	695.24	692.38	699.05
40	Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken,) and retained on 2.36 mm sieve		1 Cum.	647.62	638.10	574.29	624.29	706.67	705.67	664.76	705.67	676.19	690.48	709.52	713.33	718.10
41	Stone other than granite broken to 5cm size		1 Cum.	241.90	238.10	252.38	252.38	265.71	221.13	241.62	265.71	257.14	276.19	276.19	276.19	276.19
42	Stone other than granite broken to 4 cm. size		1 Cum.	247.62	244.76	258.10	258.10	278.10	241.90	260.00	278.10	256.57	288.57	288.57	288.57	288.57
43	Stone other than granite broken to 2 cm. size		1 Cum.	264.76	260.95	276.19	276.19	307.62	267.62	285.71	307.62	294.29	295.24	312.38	312.38	312.38
44	Stone other than granite broken to 1cm. size		1 Cum.	276.19	274.29	288.57	257.14	317.14	276.19	295.24	317.14	303.81	314.29	337.14	337.14	337.14
45	Stone boulder 15cm. & above size granite picked up and nullah boulders.		1 Cum.	143.81	141.90	149.52	149.52	133.33	133.33	126.67	133.33	128.57	132.38	132.38	132.38	132.38
46	Soilng stone boulder 15Cm & above size picked up nullah boulders broken		1 Cum.	149.52	144.76	156.19	156.19	150.48	150.48	140.95	150.48	144.76	156.19	156.19	156.19	156.19
47	Stone boulder 15cm. & above size other than granite or laterite picked up and nullah boulders.		1 Cum.	115.24	114.29	120.00	120.00	125.71	115.24	125.71	120.95	125.57	126.67	126.67	126.67	126.67
48	Soilng stone boulder 15cm. & above size other than granite or laterite picked up nullah boulders broken.		1 Cum.	126.67	125.71	132.38	132.38	135.24	135.24	126.67	135.24	129.52	140.95	140.95	140.95	140.95
49	Soilng stone boulders 10 Cm. size picked up other than granite.		1 Cum.	115.24	113.33 *	120.00	120.00	124.76	124.76	117.14	124.76	119.35	128.57	128.57	128.57	128.57
50	Hard broken soilng stone other than granite (40mm. to 90mm.)		1 Cum.	184.76	181.90	192.38	192.38	197.14	171.43	185.71	197.14	188.57	204.76	204.76	204.76	204.76
51	I.R.C. Grade I (90mm. 45 mm.)		1 Cum.	599.05	597.14	625.71	619.05	614.29	573.33	614.29	587.52	638.10	638.10	638.10	638.10	638.10
52	I.R.C. Grade II (65mm. to 45mm.)		1 Cum.	668.57	661.90	698.10	698.10	676.19	676.19	676.19	676.19	647.62	706.67	706.67	706.67	706.67
53	I.R.C Grade III (53mm. to 22.4mm.)		1 Cum.	714.29	704.76	746.67	719.05	732.38	732.38	709.05	732.38	764.76	764.76	764.76	764.76	764.76
54	Laterite scaling stone 23Cm. size		1 Cum.	97.14	95.76	100.95	100.95	98.10	99.52	94.29	102.86	98.10	107.62	107.62	107.62	107.62
55	Laterite Stone rough dressed		1 Cum.	538.10	544.76	578.00	592.86	591.43	482.86	504.76	551.43	533.33	609.52	611.43	611.43	611.43
56	Bamboo mat or taka		1 Sgn.	100.41	97.93	104.56	97.93	110.37	102.07	110.37	106.22	112.03	112.03	112.03	112.03	112.03
57	Bamboo 15t class 7Cm. to 10Cm. dia & above 6m. long.		Each	110.37	106.22	115.35	112.82	122.82	114.52	122.82	117.84	130.29	130.29	130.29	130.29	130.29
58	a) Belongi Bamboo 2.51 Cm. to 4Cm. dia & above 5m. long.		Each	24.90	24.90	25.73	25.73	22.41	22.41	21.58	21.58	21.58	21.58	21.58	21.58	21.58
b) Belongi Bamboo above 4Cm. dia & up to 7Cm. dia & above 5m. long.			Each	13.20	32.37	34.02	34.02	33.20	33.20	31.54	33.20	33.20	33.20	33.20	33.20	33.20

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
59	Sal bullants 75mm. to 120mm., mean dia up to 5.5m long.	1Mtr	83.82	82.99	87.14	82.99	86.31	86.31	80.50	85.31	82.99	89.63	88.80	89.63	89.55
60	Sal bullants 150mm to 200mm. mean dia up to 5.5m. long.	1Mtr	93.78	89.63	97.93	89.63	92.12	92.12	85.48	92.12	88.80	98.76	98.76	92.95	
61	Sal bullants above 200mm. & up to 250mm. mean dia 8. up to 2.75m. long.	1Cum.	7264.73	7295.27	7642.32	7058.09	8019.92	7074.69	7421.58	7985.06	7672.20	7824.07	7715.27	7800.83	7394.19
62	Sal bullants above 200mm. & up to 250mm. mean dia above 2.75m. long & up to 4.75m. long.	1Cum.	8234.02	8215.77	8608.30	7726.97	8829.88	8829.88	8390.04	8787.55	8445.47	9019.92	8733.57	5030.50	8527.80
63	Sal bullants above 200mm. & up to 250mm. mean dia above 4.75m. long	1Cum.	9235.68	9211.52	9858.05	9500.41	10190.04	10190.04	9672.20	9853.11	9746.89	10427.39	10121.99	9726.14	9809.96
64	Sal bullants above 240mm. & up to 380mm. mean dia 8. up to 2.75m. long	1Cum.	10594.13	10522.87	11074.69	10124.48	11456.43	10853.94	11288.80	10958.51	11592.53	11409.13	10843.98	10903.75	
65	Sal bullants above 250mm. & up to 380mm. mean dia 8. above 2.75m. long up to 4.75m. long	1Cum.	13154.36	13062.24	13751.87	12248.96	14078.84	14078.84	13326.14	13580.08	12467.22	14391.70	14176.76	13733.61	13604.98
66	Sal bullants above 250mm. & up to 380mm. mean dia & above 4.75m. long.	1Cum.	14131.95	14507.88	15184.23	13838.17	15917.84	15922.82	15292.12	15232.37	15648.13	15373.44	14885.06	14788.38	
67	Non-sal bullants 75mm. mean dia of any length.	1Mtr.	39.83	39.83	41.49	41.49	41.49	41.49	43.65	39.83	41.49	39.83	43.15	43.15	41.49
68	Non-sal bullants 100mm. mean dia of any length.	1Mtr.	52.28	51.95	53.94	53.94	49.79	49.79	48.13	49.79	48.13	53.94	53.94	51.45	
69	Non-sal bullants 125mm. mean dia of any length.	1Mtr.	60.58	58.09	62.24	62.24	64.73	62.24	59.75	64.73	62.24	67.22	51.45	67.22	63.90
70	Non-sal bullants 150mm. to 200mm. mean dia of any length.	1Cum.	73.86	73.03	78.01	78.01	74.69	73.03	78.01	74.69	83.82	83.82	82.16	78.94	
71	Non-Sal bullants above 200mm. & up to 250mm. mean dia up to 2.5m. long.	1Cum.	5199.17	5136.93	5458.92	4875.52	5316.18	5311.20	4892.12	5115.35	5085.48	5331.17	5242.32	5305.39	5059.83
72	Non-Sal bullants above 200mm. & up to 250mm. mean dia above 2.5m. long.	1Cum.	5774.77	5770.95	6035.68	5288.80	5786.72	5643.15	5361.00	5672.20	5535.27	5799.17	5827.34	5655.60	5482.16
73	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	27212.45	27087.14	28448.96	26514.52	31304.56	29232.37	31304.56	29943.57	29211.62	28571.37	27120.33	27506.22	
74	Seasoned rough dressed sawn Sal wood beam of cross sectional area not less than 150sq.cm. & least lateral dimension 100mm. & above 2.75m. long.	1Cum.	29952.70	29543.57	31313.69	29336.93	34110.37	31809.96	34110.37	32627.39	31369.29	30428.72	29158.51	29675.52	
75	Seasoned Sal wood planks not more than 75mm. thick & not less than 200mm. width.	1Cum.	26698.76	26663.90	27912.03	26576.76	31163.49	31163.49	28907.05	31163.49	28909.13	28547.72	28264.73	26578.42	27013.28
76	Seasoned Palsal wood planks for shutters.	1Cum.	43079.67	42489.63	43037.34	41369.54	48822.41	48822.41	48200.00	48822.41	46701.24	45228.22	43376.76	42039.00	41787.55
77	Seasoned Teak wood planks for shutters.	1Cum.	56688.80	56240.66	59265.56	55879.67	57194.19	57194.19	61303.73	67194.19	64273.86	63900.41	61313.44	59325.31	60343.82
78	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	16421.58	16298.75	17167.63	15620.75	17665.56	16307.05	16177.61	17665.56	16897.93	17261.41	17079.67	16342.24	16365.98
79	Non Sal wood scathing & planing Tentera, Kasu, Sampani, Kunumai	1Cum.	9985.53	9958.51	10349.38	9919.50	11252.28	11253.32	10130.29	11252.28	10763.49	11452.28	11547.72	10709.59	110844.81
80	Non-Sal reapers	1Cum.	424.00	-409.00	442.00	442.00	477.00	475.00	430.00	477.00	456.00	500.00	499.00	491.00	472.00
81	Fire wood.	1Qntl	714.96	710.24	746.46	688.98	793.70	722.05	-133.50	829.92	793.70	834.65	808.66	793.70	800.00
82	1St class Rangam or Mangalore pattern tiles.	10 Nos.	1176.77	1111.81	1177.93	1048.03	1205.51	1065.06	1173.86	1193.70	1205.51	1299.21	1372.05	1242.52	1264.24
83	Ridges of Ramam or Mangalore pattern tiles.	100 Nos.	228.35	211.92	238.58	214.72	260.63	237.01	272.44	255.91	258.27	250.59	248.03		
84	Flat tiles (14Cm. x 14 Cm. x 1Cm.)	1000 Nos.	245.67	244.09	256.59	223.62	283.46	257.48	259.06	296.06	283.46	275.59	278.74	271.65	266.93
85	Flat tiles (15Cm. x 15Cm. x 1.2 Cm.)	1000 Nos.	962.99	959.84	1006.30	875.59	1121.83	1023.47	1029.13	1112.60	1122.05	1165.35	1115.51	1088.98	1114.96
86	Flat tiles (30Cm. x 30 Cm. x 2.5 Cm.)	1000 Nos.	1124.41	1111.81	1174.80	1022.05	1318.90	1197.64	1211.81	1377.17	1318.90	1337.01	1273.23	1230.71	1279.53
87	Flat tiles (30Cm. x 30 Cm. x 2.5 Cm.)	1000 Nos.	240.94	238.22	251.18	218.90	263.75	239.37	245.67	249.61	262.99	274.80	274.80	274.80	262.99
88	Pan tiles.	1000 Nos.	503.15	494.49	525.98	457.48	624.41	579.53	614.17	626.77	593.28	600.00			
89	Nuria tiles (20Cm. to 25Cm.)	1000 Nos.	503.70	590.55	619.69	539.37	728.35	751.97	700.00	751.97	719.69	748.03	730.71	730.71	722.05
90	Nuria tiles (25Cm. to 30Cm.)	1000 Nos.	730.71	740.94	780.31	693.70	801.57	858.27	795.28	858.27	821.26	845.46	819.59	802.51	822.83
91	Ridge tiles														

Name of Items		Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
92	Marble Tiles of minimum 16 mm thick, durugun variety.														
(a) Up to 0.10 Sqm.	1 Sqm.	428.35	424.41	428.35	428.35	428.35	428.35	428.35	428.35	428.35	428.35	428.35	428.35	428.35	428.35
(b) Above 0.10 Sqm. to 0.40 Sqm.	1 Sqm.	523.62	518.90	522.83	523.62	523.62	518.11	523.62	523.62	523.62	523.62	523.62	523.62	523.62	523.62
(c) Above 0.4 Sqm. to 1.00 Sqm.	1 Sqm.	590.55	581.10	589.76	590.55	590.55	582.68	590.55	590.55	590.55	590.55	590.55	590.55	590.55	590.55
93	Kota Tiles of min. min. 16 mm thick														
(a) Up to 0.10 Sqm.	1 Sqm.	316.54	313.39	316.54	316.54	315.54	316.54	313.39	316.54	316.54	316.54	316.54	316.54	316.54	316.54
(b) Above 0.10 Sqm.	1 Sqm.	386.61	379.53	386.61	386.61	386.61	386.61	381.89	386.61	387.40	386.61	386.61	386.61	386.61	386.61
94	Khandolites (Up to 0.06 Sqm.)														
95	Granite Tiles														
(a) Up to 0.10 Sqm. (10mm thick)	1 Sqm.	913.52	916.54	923.62	923.62	923.62	915.75	923.62	923.62	923.62	923.62	923.62	923.62	923.62	923.62
(b) Above 0.10 Sqm.	1 Sqm.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(i) Above 0.10 Sqm & up to 0.4 sqm (10mm thick)	1 Sqm.	1048.03	1039.37	1048.03	1048.03	1048.03	1041.73	1048.03	1048.03	1048.03	1048.03	1048.03	1048.03	1048.03	1048.03
(ii) Above 0.40 sqm. (20mm thick)	1 Sqm.	1645.67	1637.80	1645.67	1559.06	1645.67	1645.67	1645.67	1645.67	1645.67	1645.67	1645.67	1645.67	1645.67	1645.67
96	Kodappa Tiles of 10 mm thick														
(a) Above 0.1 Sqm & Up to 0.40 Sqm	1 Sqm.	237.80	235.22	237.80	237.80	237.80	237.80	237.80	237.80	237.80	237.80	237.80	237.80	237.80	237.80
(b) Above 0.40 Sqm.	1 Sqm.	285.83	277.17	285.83	285.83	285.83	285.83	277.95	285.83	285.83	285.83	285.83	285.83	285.83	285.83
97	Cholpur Stone Tiles.														
98	Tiles up to-														
(a) 20cmx30cm / 20cm x 20cm special plain / printed sevva ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753	1 Sqm.	304.72	300.60	301.57	301.57	301.57	304.72	299.21	304.72	277.17	304.72	304.72	304.72	304.72	304.72
(b) 30cm x 30cm / 40cm x 40cm special plain / printed sevva ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 15627:2006 (Group-B) of following sizes.	1 Sqm.	326.77	329.13	327.60	325.20	327.80	327.80	324.65	327.80	327.80	324.65	327.80	327.80	327.80	327.80
(c) Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15627:2006 (Group-B) of following sizes.	1 Sqm.	514.17	476.38	523.62	523.62	523.62	523.62	522.05	523.52	523.62	476.38	523.62	523.62	523.62	523.62
(i) Vitrified Tile 600mmx600mm Plain (Ivory)	1 Sqm.	559.06	519.69	521.55	521.65	521.65	521.65	562.99	571.65	571.65	571.65	571.65	571.65	571.65	571.65
(ii) Vitrified Tile 600mmx600mm Coloured / Printed series(Homogeneous)	1 Sqm.	467.72	433.07	476.38	468.50	476.38	476.38	472.44	476.38	476.38	476.38	476.38	476.38	476.38	476.38
(d) Vitrified Industrial floor Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm	1 Sqm.	170.87	163.28	170.87	170.87	170.87	170.87	170.87	170.87	170.87	170.87	170.87	170.87	170.87	170.87
99	Chequered Tiles.														
(a) With grey cement.	1 Sqm.	195.28	184.25	194.49	181.89	195.28	177.95	192.91	195.28	195.28	195.28	195.28	195.28	195.28	195.28
(b) With white cement.	1 Sqm.	231.50	225.20	230.71	214.96	231.50	211.02	230.71	231.50	231.50	231.50	231.50	231.50	231.50	231.50
100	Red Oxide Primer														
101	Wood Primer														
102	Wood Stain Paint														
103	Wood Shine Paint														
104	Plastic Emulsion paint														
105	Lime paint														
106	Distemper														
107	Cement Paint														
108	Red oxide powder														
109	French polish														
110	Varnish														
111	Staging Paint														
112	Coal Tar														

Sl No	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.13	G.C.I. Sheet														
a)	0.30mm thick	1 Sqm	239.15	240.55	242.55	236.60	213.40	195.74	238.30	240.85	243.40	243.40	243.40	243.40	243.40
b)	0.40mm thick	1 Sqm	240.85	246.81	247.66	244.26	248.51	204.26	246.81	248.51	248.51	248.51	248.51	248.51	248.51
1.14	A.C. Sheet														
1.15	A.C. notes	1 pair	148.03	141.73	148.03	146.46	148.03	148.03	141.73	148.03	148.03	148.03	148.03	148.03	148.03
1.16	6mm. Thick Plain A.C. Sheet	1 Sqm	181.89	176.38	181.89	177.17	181.89	165.35	181.10	181.89	181.89	181.89	181.89	181.89	181.89
1.17	Tar Paper	1 Sqm	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
1.18	Putty (Wood)	1 Kg	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05
1.19	Putty (Iron)	1 Kg	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95
1.20	Wire Mesh	1 Kg	51.05	51.21	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06
1.21	M.S. Angle	1 Quid													
1.22	M.S. Channel	1 Quid	1 Kg.	60.53	58.27	60.63	59.06	60.63	51.18	60.63	60.63	60.63	60.63	60.63	59.84
1.23	Bolt, Nut & Washers		1 Kg.	58.27	57.48	58.27	58.27	58.27	51.18	58.27	58.27	58.27	58.27	58.27	57.48
1.24	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer place		1 Kg.	67.23	65.53	67.23	65.53	62.13	63.83	67.23	67.23	67.23	67.23	66.38	
1.25	Banding Wire.		1 Kg.	43.40	42.45	43.40	43.40	43.40	37.74	41.51	43.40	43.40	43.40	43.40	42.45
1.26	Cor. String		1 Kg												
1.27	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	313.01	308.91	313.01	288.62	291.06	284.55	300.81	238.21	292.68	284.55	313.01	313.01	307.32
a)	Fruity Cement gunny bags by lot & not shorted out	100 nos	313.01	284.55	313.01	284.55	291.06	268.29	300.81	238.21	292.68	284.55	313.01	313.01	307.32
b)	Empty Drum	Each	107.32	97.56	107.32	97.56	107.32	107.32	107.32	107.32	107.32	107.32	107.32	107.32	105.60
c)	Empty Bitumen Emulsion Drum	Each	205.69	186.99	205.69	186.99	204.07	162.60	205.69	195.75	205.59	205.59	199.19	205.69	201.63
d)	Straw in Bundle	100 nos	223.58	200.00	223.58	209.76	223.58	202.44	223.58	223.58	223.58	223.58	223.58	219.51	
1.28	Straw in Chips	100ml	528.38	515.28	528.38	484.72	528.38	480.35	524.02	509.17	528.38	436.68	528.38	518.78	
1.29	Marble powder	100ml	307.42	300.44	307.42	296.94	307.42	279.48	302.93	306.55	307.42	307.42	307.42	302.18	
1.30	Cement														
a)	33 Grade														
b)	43 Grade														
c)	53 Grade														
1.31	White Cement	100ml	1515.75	1496.06	1514.96	1490.30	1515.75	1358.27	1413.39	1515.75	1515.75	1515.75	1515.75	1515.75	1515.75
1.32	Steel	1ton													
a)	Mild Steel														
b)	HSID (FE-4.15) / FESD 500	1ton	4699.57	4680.85	4698.72	4302.13	4697.87	3914.89	4510.64	2349.79	1699.57	4699.57	4699.57	4699.57	4699.57
1.33	Zinc Steel Sheet Plus.	1ton	257.64	254.15	257.64	241.92	254.15	257.64	253.28	129.26	257.64	257.64	257.64	257.64	257.64
1.34	Oxidized mild steel fittings (I.S.I.)														
1.35	Bentonite powder														
1.36	Bolt fittings (I.S.I.)	Each	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72
a)	50x37x1.50mm	Each	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
b)	75x47x0.70mm	Each	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02
c)	100x58x1.90mm	Each	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32	17.32
d)	125x65x2.12mm	Each	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
e)	M.S. alutop (I.S.I.)	Each	72.44	71.65	72.44	68.50	72.44	72.44	70.87	72.44	70.87	72.44	72.44	72.44	72.44
f)	250x16mm	Each	77.95	77.17	77.95	73.23	77.95	77.95	76.38	77.95	77.95	77.95	77.95	77.95	77.95
1.37	M.S. handle (I.S.I.)	Each	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02	11.02
a)	100mm	Each	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60	12.60
b)	125mm	Each	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75
c)	150mm	Each	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39	13.39
d)	155 mm. Tower bolt (I.S.I.)	Each	100x10mm												

Average factory price of three manufactures of cement inside the State

Rate as fixed by SAIL

Sl No	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.13	G.C.I. Sheet														
a)	0.30mm thick	1 Sqm	239.15	240.55	242.55	236.60	213.40	195.74	238.30	240.85	243.40	243.40	243.40	243.40	243.40
b)	0.40mm thick	1 Sqm	240.85	246.81	247.66	244.26	248.51	204.26	246.81	248.51	248.51	248.51	248.51	248.51	248.51
1.14	A.C. Sheet														
1.15	A.C. notes	1 pair	148.03	141.73	148.03	146.46	148.03	148.03	141.73	148.03	148.03	148.03	148.03	148.03	148.03
1.16	6mm. Thick Plain A.C. Sheet	1 Sqm	181.89	176.38	181.89	177.17	181.89	165.35	181.10	181.89	181.89	181.89	181.89	181.89	181.89
1.17	Tar Paper	1 Sqm	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
1.18	Putty (Wood)	1 Kg	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05
1.19	Putty (Iron)	1 Kg	77.95	76.38	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95
1.20	Wire Mesh	1 Kg	51.05	51.21	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06	51.06
1.21	M.S. Angle	1 Quid													
1.22	M.S. Channel	1 Quid	1 Kg.	60.53	58.27	60.63	59.06	60.63	51.18	60.63	60.63	60.63	60.63	60.63	59.84
1.23	Bolt, Nut & Washers		1 Kg.	58.27	57.48	58.27	58.27	58.27	51.18	58.27	58.27	58.27	58.27	58.27	57.48
1.24	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer place		1 Kg.	67.23	65.53	67.23	65.53	62.13	63.83	67.23	67.23	67.23	67.23	66.38	
1.25	Banding Wire.		1 Kg.	43.40	42.45	43.40	43.40	43.40	37.74	41.51	43.40	43.40	43.40	43.40	42.45
1.26	Cor. String		1 Kg												
1.27	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	313.01	284.55	313.01	284.55	291.06	268.29	300.81	238.21	292.68	284.55	313.01	313.01	307.32
a)	Fruity Cement gunny bags by lot & not shorted out	100 nos	313.01	284.55	313.01	284.55	291.06	268.29	300.81	238.21	292.68	284.55	313.01	313.01	307.32
b)	Empty Drum	Each	107.32	97.56	107.32	97.56	107.32	107.32	107.32	107.32	107.32	107.32	107.32	107.32	105.60
c)	Empty Bitumen Emulsion Drum	Each	205.69	186.99	205.69	186.99	204.07	162.60	205.69	195.75	205.59	205.59	199.19	205.69	201.63
d)	Straw in Bundle	100 nos	223.58	200.00	223.58	209.76	223.58	202.44	223.58	223.58	223.58	223.58	223.58	219.51	
1.28	Straw in Chips	100ml	528.38	515.28	528.38	484.72	528.38	480.35	524.02						

Janmabhumi

Sl. No .	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
			3	4	5	6	7	8	9	10	11	12	13	14	15
1	150x10mm	Each	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47
b)	200x10mm	Each	26.77	26.77	26.77	25.20	26.77	26.77	26.77	26.77	26.77	26.77	26.77	26.77	26.77
c)	20x10mm	Each	106 pcs	22.83	21.26	22.83	22.83	12.60	22.83	22.83	22.83	22.83	22.83	22.83	22.83
d)	M/S. Screw (1.S.1.)	Each	106 pcs	25.98	25.98	25.98	25.98	14.17	25.98	25.98	25.98	25.98	25.98	25.98	25.98
e)	12x3mm	Each	100 pcs	29.13	29.13	29.13	29.13	19.69	29.13	29.13	29.13	29.13	29.13	29.13	29.13
f)	12x4mm	Each	100 pcs	29.13	29.13	29.13	29.13	19.69	29.13	29.13	29.13	29.13	29.13	29.13	29.13
g)	20x5mm	Each	100 pcs	30.71	30.71	30.71	30.71	20.47	30.71	30.71	30.71	30.71	30.71	30.71	30.71
h)	25x4mm	Each	100 pcs	32.28	32.28	32.28	32.28	28.35	31.50	32.28	32.28	32.28	32.28	32.28	32.28
i)	25x5mm	Each	100 pcs	37.01	37.01	37.01	37.01	25.20	36.22	37.01	37.01	37.01	37.01	37.01	37.01
j)	30x4mm	Each	100 pcs	38.58	38.58	38.58	38.58	30.71	37.80	38.58	38.58	38.58	38.58	38.58	38.58
k)	30x5mm	Each	100 pcs	40.15	40.15	40.15	40.15	31.16	40.16	40.16	40.16	40.16	40.16	40.16	40.16
l)	30x6mm	Each	100 pcs	43.31	43.31	43.31	43.31	36.22	43.31	43.31	43.31	43.31	43.31	43.31	43.31
m)	35x5mm	Each	100 pcs	45.67	45.67	45.67	45.67	37.01	41.88	45.67	45.67	45.67	45.67	45.67	45.67
n)	35x8mm	Each	100 pcs	55.91	55.91	55.91	55.91	55.91	53.54	55.91	55.91	55.91	55.91	55.91	55.91
o)	50x8mm	Each	100 pcs	59.84	61.42	57.48	61.42	60.63	61.42	61.42	61.42	61.42	61.42	61.42	61.42
p)	50x8mm	Each	100 pcs	63.78	64.57	64.57	64.57	64.57	64.57	64.57	64.57	64.57	64.57	64.57	64.57
q)	Steel window stay bar (1.S.1.)	Each	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69
r)	250mm	Each	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62
s)	300mm	Each	29.13	29.13	29.13	29.13	28.35	29.13	29.13	28.35	29.13	29.13	29.13	29.13	29.13
t)	Steel window handle including Nut, bolt & washer (1.S.1.)	Each	15.75	14.96	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75
u)	150mm	Each	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47
v)	Welded mesh	Each	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
w)	25mmx25mmx11 gauge	5gm	151.49	160.00	150.85	152.34	160.85	155.74	160.85	160.85	160.85	160.85	160.85	160.85	160.85
x)	25mmx25mmx13 gauge	5gm	141.28	148.09	148.09	137.87	148.09	148.09	148.09	147.98	148.09	147.23	148.09	148.09	148.09
y)	50mmx25mmx11 gauge	5gm	141.28	148.09	148.09	137.87	148.09	135.32	142.98	148.09	148.09	148.09	148.09	148.09	148.09
z)	50mmx25mmx13 gauge	5gm	139.51	135.32	127.66	135.32	123.94	131.91	135.32	135.32	135.32	135.32	135.32	135.32	135.32
aa)	G.I. " 8 " hook	Kg	54.47	46.81	56.17	53.62	56.17	55.17	56.17	56.17	56.17	56.17	56.17	56.17	56.17
ab)	W.I. clamp	Kg	58.27	59.06	59.06	59.06	51.18	59.06	59.06	59.06	59.06	59.06	59.06	59.06	59.06
ac)	Aluminum fittings (1.S.1.)	Each	51.97	51.18	51.97	49.61	51.97	51.97	51.18	51.97	51.97	51.97	51.97	51.97	51.97
ad)	25mmx75mmx4mm	Each	43.31	42.52	43.31	41.73	43.31	39.37	42.52	43.31	43.31	43.31	43.31	43.31	43.31
ae)	100mmx25mmx4mm	Each	40.16	40.16	40.16	39.37	40.16	40.16	40.16	40.16	40.16	40.16	40.16	40.16	40.16
af)	100mmx63mmx4mm	Each	38.58	38.58	38.58	37.80	38.58	38.58	38.58	38.58	38.58	38.58	38.58	38.58	38.58
ag)	50mmx63mmx4mm	Each	25.98	25.98	25.98	22.05	25.98	25.98	25.98	25.98	25.98	25.98	25.98	25.98	25.98
ah)	50mmx75mmx3.2mm	Each	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24
ai)	Aluminum handle (1.S.1.)	Each	22.05	20.47	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05
aj)	150mm with 175mm x 40mm flat	Each	22.05	20.47	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05	22.05
ak)	125mm with 175mm x 40mm flat	Each	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26	21.26
al)	100mm with 118mm x 33mm flat	Each	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47	20.47
am)	Aluminum tower bolt (barrel type) (1.S.1.)	Each	50.39	51.18	51.97	51.18	51.97	51.18	51.97	51.97	51.97	51.97	51.97	51.97	51.97
an)	300mm x 10mm	Each	47.29	47.24	47.24	47.24	47.24	47.24	47.24	47.24	47.24	47.24	47.24	47.24	47.24
ao)	150mm x 10mm	Each	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22	36.22
ap)	100mm x 10mm	Each	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.13
aq)	Sliding door bolt (long) (1.S.1.)	Each	170.08	171.65	173.23	172.74	172.74	172.74	172.74	172.74	172.74	172.74	172.74	172.74	172.74
ar)	300mm x 6mm	Each													

Sl. No	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
1	1) 250mm x 50mm 2) Brass fittings(1.S.I.) Butt hinges (light/Ordinary) (1.S.I.)	Each	161.42	161.42	161.57	155.91	164.57	164.57	157.48	164.57	164.57	164.57	164.57	164.57	164.57
150	a) 125mm x 70mm x 4mm b) 100mm x 70mm x 4mm c) 75mm x 40mm x 2.5mm d) 50mm x 40mm x 2.5mm	Each	54.47	55.32	56.17	55.32	56.17	56.17	55.32	56.17	56.17	56.17	56.17	56.17	56.17
151	Brass Butt hinges (Heavy type) (1.S.I.) a) 125mm x 85mm x 5.5mm (0.07 kg) b) 100mmx85mmx5.5mm (0.06kg)	Each	171.06	170.21	172.77	160.00	172.77	172.77	172.77	172.77	172.77	172.77	172.77	172.77	172.77
152	Brass tower bolt (Barrel type) (1.S.I.) a) 250mm x 10-mm b) 200mm x 10-mm c) 150mm x 10mm	Each	167.66	174.47	177.87	164.26	177.87	177.87	177.87	177.87	177.87	177.87	177.87	177.87	177.87
153	Brass Screws (1.S.I.) a) 51mm b) 40mm c) 30mm d) 25mm e) 20-mm	Each	141.28	146.38	147.23	137.02	147.23	147.23	140.43	147.23	147.23	147.23	147.23	147.23	147.23
154	Chromium plated fittings (Brass) (1.S.I.)Handle (1.5.1) a) 125mm with 175 x 32mm plate b) 100mm with 150 x 25mm plate c) 75mm with 125 x 25mm plate	Each	105.53	107.23	109.79	103.83	109.79	109.79	106.38	109.79	109.79	109.79	109.79	109.79	109.79
155	Wall cement primer (1.S.I.) a) Oil bound b) Water bound	1ltr	90.55	88.19	92.91	89.76	92.91	92.91	88.98	92.91	92.91	92.91	92.91	92.91	92.91
156	Aluminium paint (1.S.I.) 157 Weather Coat (1.S.I.) 158 Adhesive (1.S.I.)	1ltr	115.75	119.69	121.26	114.17	121.26	121.26	118.11	121.26	121.26	121.26	121.26	121.26	121.26
159	Buttmentors expansion joint board (1.S.I.) a) 12mm thick b) 16mm thick c) 25mm thick	50m	589.08	600.84	602.52	551.26	602.52	602.52	584.03	602.52	602.52	588.32	598.32	602.52	602.52
160	Barbed wire (1.S.I.)	50m	815.13	852.94	856.30	793.28	856.30	856.30	815.13	856.30	856.30	856.30	856.30	856.30	856.30
161	Glass plain (1.5.1.) a) 3mm b) 4mm c) 5mm d) 6mm e) 8mm f) 10mm g) 12mm	50m	1055.55	1096.64	1109.24	1037.82	1109.24	1109.24	1054.62	1109.24	1109.24	1109.24	1109.24	1109.24	1109.24
162	Glass pan headed (1.5.1.) a) 4mm b) 5mm c) 6mm d) 8mm e) 10mm	50m	275.57	267.23	268.09	265.53	268.09	268.09	259.57	268.09	268.09	267.23	268.09	268.09	268.09
163	Black glass (1.5.1.) a) 4mm b) 5mm	50m	444.26	455.32	458.72	429.79	458.72	458.72	449.36	458.72	458.72	458.72	458.72	458.72	458.72
164	Unmt	Sam	526.81	546.38	552.34	514.89	552.34	552.34	539.57	552.34	552.34	552.34	552.34	552.34	552.34

Sl. No.	Name of Items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Chenkalai	Keonjhar	Ganjam	Koraput	Kalahandi	Phulbani
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
e	8mm	Sqm	1005.96	1047.65	1062.13	1011.06	1062.13	1062.13	1022.98	1062.13	1062.13	1021.28	1062.13	1062.13	1062.13
f	12mm	Sqm	1595.74	1663.83	1675.74	1581.70	1675.74	1540.43	1642.55	1646.81	1675.74	1659.57	1675.74	1675.74	1675.74
g	frosted glass (I.S.I.)	Sqm	437.45	441.70	449.35	428.09	449.36	449.36	442.55	445.96	449.36	425.53	449.36	449.36	449.36
h	4mm	Sqm	468.94	470.64	477.45	457.87	477.45	477.45	470.64	477.45	477.45	477.45	477.45	477.45	477.45
i	5mm	Sqm	537.02	548.09	556.60	527.66	556.60	548.94	556.60	536.17	556.60	556.60	556.60	556.60	556.60
j	Wire glass - 6 mm (I.S.I.)	Sqm	511.49	468.09	514.89	502.13	514.89	468.09	513.19	514.89	510.64	514.89	514.89	514.89	514.89
k	Sun control film (I.S.I.)	Sqm	485.11	485.96	496.17	468.09	496.17	496.17	483.40	496.17	496.17	489.36	496.17	496.17	496.17
l	Reflective	Sqm	344.68	343.83	355.74	344.68	355.74	344.68	355.74	355.74	355.74	355.74	355.74	355.74	355.74
m	Non-reflective	Sqm	623.83	595.74	655.32	628.09	655.32	595.74	642.55	646.81	655.32	655.32	655.32	655.32	655.32
n	Prelaminated particle board (standard type) (I.S.I.)	Sqm	685.96	706.38	777.02	740.43	777.02	706.38	761.70	777.02	765.96	777.02	777.02	777.02	777.02
o	25mm BWR ply wood (I.S.I.)	Sqm	252.77	242.55	252.77	238.30	252.77	252.77	252.77	252.77	252.77	252.77	252.77	252.77	252.77
p	3mm	Sqm	285.96	289.79	294.47	275.74	294.47	294.47	293.62	294.47	294.47	294.47	294.47	294.47	294.47
q	4mm	Sqm	408.51	410.21	421.28	409.79	421.28	408.51	421.28	421.28	421.28	421.28	421.28	421.28	421.28
r	5mm	Sqm	504.68	510.64	519.15	480.85	519.15	519.15	508.94	519.15	519.15	519.15	519.15	519.15	519.15
s	9mm	Sqm	655.32	672.34	683.40	628.09	683.40	663.83	627.23	683.40	680.85	683.40	683.40	683.40	683.40
t	12mm	Sqm	768.51	801.70	814.47	746.38	814.47	808.51	781.28	814.47	814.47	808.51	814.47	814.47	814.47
u	16mm	Sqm	910.64	876.60	959.89	873.19	954.89	1021.28	919.15	954.89	954.89	954.89	954.89	954.89	954.89
v	19mm	Sqm	1300.93	1341.68	1366.81	1246.81	1366.81	1366.81	1361.70	1317.45	1366.81	1361.70	1366.81	1366.81	1366.81
w	25mm BWR Block Board (I.S.I.)	Sqm	687.66	710.64	720.85	666.38	720.85	689.36	720.85	720.85	720.85	720.85	720.85	720.85	720.85
x	16mm	Sqm	774.47	801.70	814.47	751.49	814.47	814.47	778.72	814.47	812.77	814.47	814.47	814.47	814.47
y	19mm	Sqm	859.57	919.15	926.81	853.62	926.81	891.91	926.81	926.81	926.81	926.81	926.81	926.81	926.81
z	25mm	Sqm	1081.70	1140.43	1151.49	1057.87	1151.49	1151.49	1099.57	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49
a	32mm	Sqm	1140.43	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49	1151.49
b	Vinyl Flooring (I.S.I.)														
c	Homogeneous Range (I.S.I.)														
d	PVC (MF) Classic roll 1.00mm thick	Sqm	233.96	240.16	242.52	224.41	242.52	220.47	238.58	239.37	242.52	242.52	242.52	242.52	242.52
e	PVC (MF) classic tile 1.00mm thick	Sqm	275.59	271.65	277.17	258.27	277.17	251.97	275.59	276.38	277.17	277.17	277.17	277.17	277.17
f	PVC (MF) impress roll 1.50mm thick	Sqm	317.32	314.96	320.47	295.28	320.47	291.34	314.96	318.11	320.47	320.47	320.47	320.47	320.47
g	PVC (MF) impress tile 1.50mm thick	Sqm	366.14	380.31	385.04	354.33	385.04	350.39	376.38	385.04	385.04	385.04	385.04	385.04	385.04
h	PVC (MF) super roll 2.00mm thick	Sqm	411.81	425.20	429.13	394.49	429.13	390.55	416.54	429.13	429.13	422.83	429.13	429.13	429.13
i	PVC (MF) super tile 2.00mm thick	Sqm	478.74	492.13	496.06	455.12	496.06	451.18	478.74	496.06	496.06	496.06	496.06	496.06	496.06
j	Heterogeneous Range (I.S.I.)														
k	PVC (MF) Hetro roll 2.00mm thick	Sqm	439.37	441.73	450.39	423.62	450.39	409.45	431.50	450.39	450.39	450.39	450.39	450.39	450.39
l	PVC (MF) hetro tile 2.00mm thick	Sqm	498.98	504.72	511.02	478.74	511.02	464.57	490.55	511.02	511.02	511.02	511.02	511.02	511.02
m	Aluminum extruded section	Kg	216.17	219.57	224.58	223.83	224.58	224.68	222.98	224.58	224.58	224.58	224.58	224.58	224.58
n	Roll formed sections made of pre painted steel & base steel as per IS:513 of 0.6 mm thick "D" quality, galvanised as per IS:277 with zinc of 120 gm / sq mtr														
o	Outer frames Po 527	Mtr	286.81	286.81	290.21	263.83	285.11	290.21	290.21	290.21	290.21	290.21	290.21	290.21	290.21
p	Intermediate mullion Po 528	Mtr	310.64	315.74	322.55	293.62	314.89	322.55	322.55	322.55	322.55	322.55	322.55	322.55	322.55
q	Shutter frame Po 153	Mtr	242.55	240.00	243.40	221.28	243.40	221.28	236.60	243.40	243.40	243.40	243.40	243.40	243.40
r	Fixed doorway Po 770	Mtr	125.11	120.00	125.11	114.04	125.11	114.04	125.11	125.11	125.11	125.11	125.11	125.11	125.11
s	Surging shutter Po 154	Mtr	149.79	147.23	149.79	136.17	149.79	136.17	149.79	149.79	149.79	149.79	149.79	149.79	149.79
t	Outer frames/tiles top Po 255	Mtr	180.43	178.72	182.13	165.96	182.13	165.96	178.72	182.13	178.72	182.13	182.13	182.13	182.13
u	Outer frames/bottom Po 256	Mtr	125.36	121.70	125.36	114.89	125.36	114.89	123.40	125.36	125.36	125.36	125.36	125.36	125.36
v	Outer sliding track SSJ Po 157	Mtr	466.39	474.04	477.45	434.04	477.45	434.04	457.87	477.45	477.45	477.45	477.45	477.45	477.45
w	Sashbar Po 101	Mtr	440.00	449.35	449.35	449.51	449.35	449.51	435.74	449.35	449.35	449.35	449.35	449.35	449.35

Sl. No	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj	Sambalpur	Balangir	Sundargarh	Dhenkanal	Konark	Ganjam	Koraput	Kalahandi	Phulbani
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
i)	Sliding shutter at shutter Pn 10 /	Mtr	222.98	245.96	247.66	225.53	247.66	225.53	240.85	247.66	247.66	247.66	247.66	247.66	247.66
k)	Louvered horizontal (top / bottom) Pn-193 A	Mtr	125.96	125.11	125.96	114.89	125.96	114.89	125.96	125.96	125.96	125.96	125.96	125.96	125.96
l)	32 x 57 Box Section	Mtr	290.21	290.21	294.47	268.09	294.47	268.09	285.11	294.47	294.47	294.47	294.47	294.47	294.47
m)	100x50mm Box Section	Mtr	431.49	434.89	440.00	440.00	440.00	440.00	432.34	440.00	440.00	440.00	440.00	440.00	440.00
n)	Small Z section	Mtr	212.77	211.91	215.32	195.74	215.32	195.74	212.77	215.32	215.32	215.32	215.32	215.32	215.32
o)	Extended Z section	Mtr	285.11	286.81	290.21	263.83	290.21	263.83	284.26	251.91	290.21	290.21	290.21	290.21	290.21
p)	Cover profile	Mtr	102.58	102.13	104.68	95.32	104.68	95.32	102.13	104.68	104.68	104.68	104.68	104.68	104.68
Accessories															
a)	sliding outer frame assembly / Mtr	Each	227.23	228.09	231.49	211.06	231.49	211.06	225.53	231.49	231.49	231.49	231.49	231.49	231.49
b)	sliding shutter /pc	Each	192.34	281.70	285.11	259.57	285.11	259.57	259.15	285.11	285.11	285.11	285.11	285.11	285.11
c)	Sashbar	Each	15.32	15.32	14.97	15.32	14.97	15.32	15.32	15.32	15.32	15.32	15.32	15.32	15.32
d)	wall fixing with polyamide anchor at every 600mm c/c	Each	24.68	24.68	24.68	22.98	24.68	22.98	24.68	24.68	24.68	24.68	24.68	24.68	24.68
e)	Outer frame corner	Each	37.95	37.45	37.45	34.04	37.45	34.04	36.60	37.45	37.45	37.45	37.45	37.45	37.45
f)	Top hung shutter / pc	Each	302.13	306.38	308.94	280.85	308.94	280.85	303.83	308.94	308.94	308.94	308.94	308.94	308.94
g)	Fixed Mullion	Each	46.81	45.95	46.81	42.55	46.81	42.55	45.56	46.81	46.81	46.81	46.81	46.81	46.81
h)	Fixed glazing	Each	93.62	91.06	93.62	85.11	93.62	85.11	93.62	93.62	93.62	93.62	93.62	93.62	93.62
i)	Louvered blade	Each	24.68	24.68	24.68	22.58	24.68	22.58	24.68	24.68	24.68	24.68	24.68	24.68	24.68
j)	Side hung door / pc	Each	346.38	353.19	355.74	323.40	355.74	323.40	347.23	355.74	355.74	355.74	355.74	355.74	355.74
k)	Door lock / pc	Each	311.49	314.89	318.30	289.36	318.30	289.36	306.38	318.30	318.30	318.30	318.30	318.30	318.30
l)	Swing door shutter /pc	Each	174.47	176.17	177.87	161.70	177.87	161.70	170.21	177.87	177.87	177.87	177.87	177.87	177.87
m)	Floor Spring (Garde) Make	Each	265.58	271.64	271.89	2468.09	271.89	2468.09	2659.57	271.89	271.89	271.89	271.89	271.89	271.89
Gasket															
a)	For Shutter Pn 153	Mtr	39.89	31.89	34.89	32.34	34.89	32.34	33.19	34.89	34.89	34.89	34.89	34.89	34.89
b)	For bedding fit 175	Mtr	46.81	45.96	46.81	42.55	46.81	42.55	45.11	46.81	45.11	46.81	45.11	46.81	45.11
c)	For Sashbar Pn 101	Mtr	97.02	96.17	97.87	89.36	97.87	89.36	95.32	97.87	97.87	97.87	97.87	97.87	97.87
New Item															
1/3	Rate of 50 micron powder coating (including labour charges and material for powder coating) for aluminum sect.07.	Kg of Aluminum	22.83	22.83	21.26	22.83	21.26	22.83	22.83	22.83	22.83	22.83	22.83	22.83	22.83
1/4	12.5 mm thick gypsum board of size 6' x 4'	One Piece	299.21	299.21	275.59	275.59	303.15	275.59	303.15	303.15	303.15	303.15	303.15	303.15	303.15
1/5	Waste Plastic duly cleaned and shredded conforming to the size passing 2.35mm sieve and retained or 50X micron sieve and conforming to requirement if IBC:SP:08-2013.	per Kg	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Dr. R. K. Singh

NOTES:

- 1) All Reinforcement Steel and structural steel shall be procured and used as per specifications mentioned in BIS's documents- IS:1786 and IS:2062 respectively. Independent tests shall be conducted, wherever required, to ensure that the materials procured conform to the specifications.

These steel shall be procured only from those firms, which are established, reliable, Indigenous & primary producers of steel, having Integrated Steel Plants (ISP), using iron ore as the basic raw material as per Ministry of Steel's guidelines.

No re-rolled steel shall be permitted in works. All other specifications and guidelines of MORTH shall be complied.

All reinforcement steel and structural steel shall be procured from primary producers of steel:- SAIL/RINL/TATA/JINDAL STEEL/SHYAM STEEL.

In case of exigency, other brands (primary producers) of steel may be used with proper justification and prior approval of competent authority satisfying the tests as required by BIS's code.

- 2) The Cement of the companies having their own manufacturing units in the State of Odisha is to be used in all works.
- 3) In case of bridge works expansion joints and bearings are to be procured from only specified manufacturing units approved by MORTH,
- 4) Hard stone is to be used in lieu of granite for slope protection work.

I. Stone and Stone Products

- 1) The rates of materials in SR are basic rates excluding cost of conveyance, royalty & GST but including cost of stacking.
- 2) Normally blasted stones should not be used for soling stone where hand broken stones are available.
- 3) The box heaps of 1.5mx 1.5mx 0.44m is to be measured as 1 Cu. M.

II. Wood Work

- (a) The rate of wood work items are equivalent to the rates of Orissa Forest Corporation on the average. If any change to the rates are made by the Forest Corporation the revised rates shall be taken into consideration while arriving at the finished rates.
- (b) For wood works the supply rates as fixed by the Forest Corporation shall prevail over that stated in this schedule of rates.

III. Items under Miscellaneous Head

The rates under the sub-head under the Miscellaneous items are enclosure of labour and cost of all materials and conveyance except where otherwise mentioned in the description of items.

IV. Weight of Cement

14.30 quintals per one Cu. M.

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V. Materials under E.P.M. /D.G.S. & D.'s Rate

1) In case of item of work or for supply of materials against which rates have been approved by Directorate of Export Promotion and Marketing the same shall be made applicable for adoption in this schedule of rates.

In case of items of work or for supply of materials, against which rates have been approved by the D.G.S & D. the same rate shall be made applicable for adoption in this schedule of rates provided that if the rates of same items of work or for supply of materials are also forced by E.P.M. the E.P.M. rates will prevail over D.G.S. & D.'s rates.

VI. Rate of Cement, Steel and Bitumen will increase/decrease as mentioned below:

- 1) Steel: Rate as fixed by Steel Authority of India Limited (SAII).
- 2) Cement: Average factory price of three manufacturers of cement inside the State.
- 3) Bitumen: Rate as fixed by Indian Oil Corporation Limited (IOCL) / Hindustan Petroleum Corporation Limited (Hpcl)/Bharat Petroleum Corporation Limited (Bpcl).

VII. In Cement Concrete items of Analysis of Rate centering and shuttering shall be added extra wherever necessary depending upon the item of work.

VIII. Overhead Charges include the following elements -

- i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
- ii. Office furniture, equipment and communications
- iii. Expenditure on
 - a) Corporate office contractor
 - b) Site supervision
 - c) Documentation and "as built" drawings
- iv. Mobilisation/de-mobilisation of resources
- v. Labour camps with minimum amenities and transportation to work sites
- vi. Light vehicles for site supervision including administrative and managerial requirements
- vii. Laboratory equipment and quality control including field and laboratory testing
- viii. Minor T&P and survey instruments and setting out works, including verification of line, dimensions, trial pits and bore holes, where required
- ix. Watch and ward
- x. Traffic management during construction
- xi. Expenditure on safeguarding environment
- xii. Sundries
- xiii. Financing Expenditure
- xiv. Work Insurance/compensation
- xv. For the purpose of calculation of overhead charges @ 7.5 % to be adopted in Analysis of Rates of various items to work out estimated cost.

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CHAPTER-II
POST GST RATE OF LABOUR

SL. No.	DESCRIPTION 2	UNIT 3	RATE in Rs. 4
1			
A	Category unskilled		
1	<i>Male mulia</i>	Per day	150.00
2	Female mulia	Per day	150.00
3	Survey Khalasi/ Chain man	Per day	150.00
4	Scavanger	Per day	150.00
B	Category Semi skilled		
1	<i>Male mulia</i>	Per day	150.00
2	Female mulia	Per day	150.00
3	Survey Khalasi/ Chain man	Per day	150.00
4	Scavanger	Per day	150.00
B	Category Semi skilled		
1	Mulia working in water or arduous nature of work	Per day	170.00
2	Night mulia or attendant working in flood and other emergent work	Per day	170.00
3	Mulia for handling hot binder and Tar boiler men	Per day	170.00
4	Sangi mulia	Per day	170.00
5	Pile driving mate(Guide man)	Per day	170.00
6	Mate	Per day	170.00
7	Helper to carpenter or Blacksmith/ Painter/ Blaster/ Plumber/ Electrician/ Fitter/ Welder	Per day	170.00
8	Hammer man	Per day	170.00
9	Thatcher/ Gharami	Per day	170.00
10	Tile turner	Per day	170.00
11	Boat man	Per day	170.00
12	Bhisti	Per day	170.00
13	Well sinker	Per day	170.00
14	Rod binder and bender	Per day	170.00
15	Cleaner/ Sweeper	Per day	170.00
16	Stone packer	Per day	170.00
17	Pump helper	Per day	170.00
18	Watch man(Store)/Gurkha / Security Guard	Per day	170.00
19	Bellow man	Per day	170.00
D	Category Highly Skilled		
1	Blaster (licensed)	Per day	205.00
2	Mason (special)	Per day	205.00
3	Carpenter(special)	Per day	205.00
4	Blacksmith(special)	Per day	205.00
5	Fitter(special)	Per day	205.00
6	Painter/ Polisher(special)	Per day	205.00
7	Welder(special)	Per day	205.00
8	Plumber(special)	Per day	205.00
9	Driller (Special)	Per day	205.00
10	Stone dresser/ Cutter(special)	Per day	205.00
11	Diver for well sinking in bridge of four hours.)	(per shift	205.00

Sl. No	DESCRIPTION	UNIT	RATE in Rs.
1	2	3	4
12	Electrician/ Air conditioned plant operator/ wire man/ Lift operator/ Diesel pump operator (special).	Per day	205.00
13	Jeep driver/ Tractor driver / Truck driver / Dozer driver / Roller driver /Concrete mixture operator / Crane operator	Per day	205.00
14	Auto electrician	Per day	205.00
15	Guiniting Machine operator	Per day	205.00
16	Senior Accountant / Stenographer	Per day	205.00
17	Supervisor / Manager	Per day	205.00
18	Testing Laboratory Assistant / Instrument Mechanic/ Telephone Mechanic.	Per day	205.00
19	Rigger and Cobbler with Tools Driver (Heavy Vehicle)	Per day	205.00

Note :

1. Labour rates for un-skilled, Semi skilled, Skilled and Highly skilled as are to be fixed from time to time by Labour Department under Minimum Wages Act shall prevail in respect of any category what so ever.
2. The rates for above four categories of labour are inclusive of weekly day of rest.
3. An adult Employee shall work for 8 (Eight) hours per day including half-an-hour of rest.

Sl No.	Description	Unit	Rate in (Rs.)
E.	Other Category (Not covered by the Notification of Labour & Employment Department).		
01	Boring Mistry (Special)	Per Day	205.00
02	Winch operator	Per Day	205.00
03	Well Sinker (Special)	Per Day	205.00
04	Helper to Well Sinker	Per Day	190.00
05	Computer Programmer	Per Month	7000.00
06	Data Entry Operator	Per Month	5200.00
07	Helper to operator of Heavy construction Machineries	Per Month	5000.00
08	Mechanic for Heavy construction Machineries	Per Month	6000.00
09	Helper to mechanic for heavy construction Machineries	Per Month	5000.00
10	Operator for Heavy construction Machineries	Per Month	6000.00
11	Junior Research Assistant (Technical Assistant)	Per Month	5200.00

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CHAPTER-III
POST GST RATE FOR CONVEYANCE OF MATERIALS

ITEM NO-1. Conveyance of Materials by Ten Tonne Trucks including loading & unloading.

Distance to be carried	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum laterite stone, washed gravel, flyash & earth (Per 1 cuin)	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & fly ash blocks 400mmx200mmx200mm= 300 nos 400mmx150mmx200mm= 400 nos 400mmx100mmx200mm= 600 nos 300mmx200mmx150mm= 550 nos 300mmx150mmx150mm= 730 nos 300mmx100mmx150mm= 1100 nos All Kinds of tiles = 180 Sqm (per truck)	Iron, Grills, Cement, Bitumen, A.C sheet, GCI Sheet & Paint etc(per 1000 kg) Wood (per 1.25 cum)	Bulky materials like Machineries, generators, concrete pipe & furniture etc (per Truck)
1	2	3	Railway station	Other places
4	5	6		
Up to 5 KM	149.67	967.27	175.50	161.72
Every extra KM beyond 5 KM and up to 50 Km	8.80	39.62	8.23	8.23
Every extra KM beyond 50 KM	6.22	31.87	6.99	6.99
				31.87

Note : Extra percentage to be allowed over the rates

1. For earthen roads or village tracks or cross country tracks, 20 % extra may be allowed on the certificate of Executive Engineer after his inspection and duly approved by Superintending Engineer.
2. For declared ghat road, add extra length of ghat road portion.

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ITEM NO. 2: Loading into Trucks and Unloading from trucks (Within 50 m lead) including stacking

Sl. No	Details of materials	Unit	Rate (in Rs.)
1	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum, laterite stone, washed gravel, & earth etc.	1 Cum	79.00
2	Iron, grills, cement, Bitumen, A.C sheet, GCI Sheet ,Coke,coal lime etc	1 qtl.	11.00
3	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & flyash blocks 400mmx200mmx200mm= 300 nos 400mmx150mmx200mm= 400 nos 400mmx100mmx200mm= 600 nos 300mmx200mmx150mm= 550 nos 300mmx150mmx150mm= 730 nos 300mmx100mmx150mm= 1100 nos All kinds of tiles= 180 Sqm	1 truck load	448.00
4	Bulky material such as a) Hume pipes & furnitures b) Heavy machineries such as compressors ,concrete mixer, hotmix plant etc.	1 truck load	611.00
		1 truck load	728.00

Note : a) For item no . 1

- i) 2/3 of rate is considered for loading
- ii) 1/3 of rate is considered for unloading

b) for item no 2,3 & 4

- i) 50 % of rate is considered for loading
- ii) 50 % of rate is considered for unloading



ITEM NO. 3 Carriage by Bullock Cart including Loading and Unloading

Sl. No	Distance to be carried.	Unit	Rate (in Rs.)
1	First KM	1 cart load	67.00
2	Subsequent KM	1 cart load	34.00

ITEM NO. 4 Unloading from Railway wagon and loading into trucks

Sl. No	Details of materials.	Unit	Rate (in Rs.)
1	Unloading from Railway wagon and stacking on platform 1.0 m in clear of rails within 15 m lead	1 Qtl.	1.60
	a) Cement, Bitumen, coal, paint etc		
	b) Steel, A.C sheet, GCI Sheet , etc	1 Qtl.	5.80
2	Removing from railway platform and loading into trucks	1 Qtl.	1.60
	a) Cement, Bitumen, coal, paint etc		
	b) Steel, A.C sheet, GCI Sheet , etc	1 Qtl.	5.80

ITEM NO. 5 Conveyance by Head load including loading & unloading and stacking

Sl. No	Distance to be carried.	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum, laterite stone, moorum, washed gravel, fly ash & earth per cum	Iron, grills, cement,lime, Bitumen, A.C sheet, GCI Sheet ,paint etc (per 1 quintal), wood(per 0.125 cum)
1	2	3	4
		Rate (in Rs.)	Rate (in Rs.)
1	Up to 50 mtr.	33.00	8.30
2	Beyond 50 mtr and upto 100 mtr	38.00	12.40
3	Beyond 100 mtr and upto 150 mtr	50.00	18.00

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ITEM NO. 6 Conveyance by Boat including loading & unloading

Distance to be carried.	Rough stone, metal, khoa chips, sand, surki, quarry rubbish, moorum laterite stone, moorum, washed gravel, fly ash & earth (per cum)	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & flyash blocks 400mmx200mmx200mm= 300nos 400mmx150mmx200mm= 400 nos 400mmx100mmx200mm=600 nos 300mmx200mmx150mm=550 nos 300mmx150mmx150mm=730 nos 300mmx100mmx150mm=1100 nos All kind of Tiles=180 Sqm	Iron, grills, cement, lime, Bitumen, A.Csheet, GCI Sheet &, paint etc (per 1 quintal) wood(per 0.125 cum)
1	2	3	4
	Rate (in Rs.)	Rate (in Rs.)	Rate (in Rs.)
A) In River			
i) Up to 5 KM.	49.00	280.00	8.40
ii) Every extra KM beyond 5.00 Km and upto 16 KM	5.20	24.70	0.70
iii) Every extra KM beyond 16 KM	2.60	18.00	0.60
B) In canal			
i) Up to 5 KM.	34.00	245.50	7.00
ii) every extra KM beyond 5.00 Km and upto 16 KM	5.80	20.80	0.90
iii) every extra KM beyond 16 KM	2.60	16.00	0.70

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Item No.7 Capacity of Trucks

Sl. No.	Description of Items	Capacity
1	2	3
1.	Rough stone and cut laterite stones	
i).	Rough stone(Boulders)	4.00 Cum
ii)	Cut laterite stone	5.00 Cum
2.	Gravel, sand & surki	5.50 Cum
3.	Cut stone [granite & hard stone]	5.50 Cum
4.	Lime	5.50 Cum
5.	Wood	5.00 Cum
6.(a)	Bricks 25 cm	2000 Nos
b)	Bricks 23 cm	2500 Nos
c)	Cement concrete & flyash blocks	
	400mm x 200mm x 200mm	300 Nos
	400mm x 150mm x 200mm	400 Nos
	400mm x 100mm x 200mm	600 Nos
	300mm x 200mm x 150mm	550 Nos
	300mm x 150mm x 150mm	730 Nos
	300mm x 100mm x 150mm	1100 Nos
d)	All kinds of tiles	180 Sqm
7.	Iron, tar, pitch and other materials considered by weight	7.00 tonnes
8.	Cement	8.00 tonnes
9.	Straw for thatching	1000 Nos or 100 head loads or 50 Bhar loads
10.	Bamboos	30 Bhar loads
11.	Hume pipe up to 600mm diameter	5 Nos.
12.	Hume pipe 900mm & above diameter	3 Nos.

Note:-

Where materials are to be conveyed by head loads or by pack animals, rates are to be worked out on actual analysis and approved by the Superintending Engineer.

Item No. 8: Head Loads

Sl.No.	Description of Items	Capacity
1	2	3
1.	Each head load of straw	1 bundle of 1.5 mtr. in girth
2.	Each bhar load of straw	2 bundle of 1.5 mtr. in girth
3.	Each head load of bamboo	Belangi 10 Nos., muli 3 nos
4.	Each bhar load of bamboo	Belangi 20 Nos., muli 6 nos

Item No -9 : Cart Load of Materials

Sl No	Description of Items	Quantity per cart load	
		Plain Road	Hilly Road
1	2	3	4
1.	Rough stone cut laterite stone	0.28 cum	0.23 cum
2.	Gravel , Sand & Surki	0.36 cum	0.28 cum
3.	Cut Stone (granite & hard Stone)	0.20 cum	0.15 cum
4.	Lime and wood	0.60 cum	0.42 cum
5.	Bricks	200 nos	150 nos
6.	Cement concrete & flyash blocks 400mm x 200 mm x 200 mm 400mm x 150 mm x 200 mm 400mm x 100 mm x 200 mm 300mm x 200 mm x 150 mm 300 mmx 150 mmx150 mm 300 mmx100 mmx150 mm	30 nos 40 nos 60 nos 55 nos 73 nos 110 nos	22 nos 30 nos 45 nos 41 nos 55 nos 82 nos
7.	Pan tiles	1000 nos	800 nos
8.	Flat tiles		
	i) 15cmx15cmx1.25cm ii) 30cmx15cmx2.5cm iii) 30cmx30cmx2.5cm	2000 nos 500 nos 250 nos	1600 nos 400 nos 200 nos
9.	Nuria Tiles - 20 cm x 25 cm	800 nos	600 nos
10.	Mangalore and Ranigang tiles	250 nos	200 nos
11.	Iron , Cement,tar,Pitch and other materials by weight	454 kg	363 kg

Note: - The rates of conveyance of materials are exclusive of voids of materials.

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CHAPTER -IV
POST GST SERVICE CONTRACT FOR PLANTS AND MACHINERIES

Sl. No.	DESCRIPTIONS		Output	Unit	USAGE RATES IN RS Rate (in Rs.)
	Machine	Activity			
1	Dozer D-50-A 15	Spreading	200cum/hour	per hour	1592.17
		Cutting	100cum/hour	per hour	
		Cleaning	150cum/hour	per hour	
2	Dozer D-80-A 12	Spreading	300cum/hour	per hour	2190.43
		Cutting	150cum/hour	per hour	
		Cleaning	250cum/hour	per hour	
3	Motor Grader 3.35meter blade	Clearing	200cum/hour	per hour	1343.48
		Spreading	200cum/hour	per hour	
		GSB	50cum/hour	per hour	
		WMM	50cum/hour	per hour	
4	Tractor with ordinary grader			per hour	251.30
5	Hydraulic Excavator of 1cum bucket	Soil ordinary	60cum/hour	per hour	730.43
		Soil Marshy	60cum/hour	per hour	
		Soil unsuitable	60cum/hour	per hour	
6	Hydraulic Excavator of 2cum bucket	Soil		per hour	1624.35

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Sl. No.	DESCRIPTIONS			USAGE RATES IN RS	
	Machine	Activity	Output	Unit	Rate (in Rs.)
7	Front End loader 1 cum bucket capacity	Soil loading	60cum/hour	per hour	452.17
		Aggregate loading	25cum/hour	per hour	
8	Tipper-5cum	Transportation of soil, GSB, WMM, Hotmix etc.	5.5cum	per km.	20.87
				per tonne.km	2.17
				per hour	506.09
				per hour	506.09
9	Vibratory Roller 8-10 tonne	Earth/soil	100cum/hour	per hour	864.35
		GSB	60cum/hour	per hour	
		WMM	60cum/hour	per hour	
10	Smooth wheeled Roller 8-10 tonne	Soil compaction	70cum/hour	per hour	294.78
		BM compaction	25cum/hour	per hour	
11	Sheep foot Roller	Soil compaction		per hour	56.52
12	Truck mounted water tanker	Water transport	6KL	per hour	506.09
13	Tractor	Pulling	50HP	per hour	200.87
14	Rotavator	Mixing	25cum/hour	per hour	9.57
15	Ripper	Scarifying	60cum/hour	per hour	15.65
16	Air Compressor	General purpose	170/250cfm	per hour	179.13
17	Diesel Compressor		400cfm	per hour	744.35
18	Diesel Compressor		300cfm	per hour	618.26
19	Electrical Compressor		500cfm	per hour	432.17
20	Wet Mix Plant 60 TPH	Wet Mix	25cum/hour	per hour	675.65
21	Wet Mix Plant 75 TPH	Wet Mix	34cum/hour	per hour	900.87

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SL. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
22	Mechanical broom hydraulic	Surface cleaning	1250sqm/hour	per hour	200.00
23	Bitumen pressure distributor	Applying bitumen tack coat	1750sqm/hour	per hour	601.74
24	Emulsion pressure distributor	Applying emulsion tack coat	1750sqm/hour	per hour	448.70
25	Hotmix plant -120 TPH	DBM/BM/SDC/ Premix	40cum/hour	per hour	13130.43
26	Hotmix plant -100 TPH	DBM/BM/SDC/ Premix	30cum/hour	per hour	9710.43
27	Hotmix plant -60 to 90TPH	DBM/BM/SDC/ Premix	25cum/hour	per hour	7765.22
28	Hotmix plant -40 to 60TPH	DBM/BM/SDC/Pr emix	17cum/hour	per hour	6217.39
29	Hotmix plant -8 to 10TPH	Premix	cum/hour	per hour	891.30
30	Paver Finisher Hydrostatic with sensor control 100 TPH	Paving of DBM /BM /SDC/Premix	40cum/hour	per hour	1500.00
31	Paver Finisher Mechanical 100 TPH	Paving of WMM/PMC	40cum/hour	per hour	642.61
		Paving of DLC	30cum/hour	per hour	
32	Paver Finisher Mechanical	Paving of DLC	75cum/hour	per hour	1605.22
33	Hydraulic Chips Spreader	Surface Dressing	1500sqm/hour	per hour	1478.26
34	Tandem Road Roller	Rolling of Asphalt surface	30cum/hour	per hour	641.74
35	Pneumatic Road Roller	Rolling of Asphalt surface	25cum/hour	per hour	697.39
36	Pot hole repair machine	Repair of pot holes	4cum/hour	per hour	508.70
37	Bitumen boiler oil fired	Bitumen spraying	1500Litre	per hour	111.30
38	Tar boiler	Bitumen spraying		per hour	64.35

Sl. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
39	GSB Plant 50 cum	Producing GSB	40cum/hour	per hour	582.61
40	Mastic Cooker	Mastic Wearing Coat	1tonne	per hour	1379.13
41	Batching and Mixing plant 15-20cum	Concrete Mixing	13cum/hour	per hour	1043.48
42	Batching and Mixing plant 30cum	Concrete Mixing	20cum/hour	per hour	1252.17
43	Batching and Mixing plant 112.5cum	Concrete Mixing	75cum/hour	per hour	2400.00
44	Batching and Mixing plant 262.5cum	Concrete Mixing	175cum/hour	per hour	4486.96
45	Transit Mixer	Transportation of concrete mix to site	4.5cum/hour	per hour	521.74
			3cum/hour	per hour	478.26
46	Grout pump			per hour	56.52
47	Concrete pump of 45 & 30 cum	Pumping Concrete	33cum/hour 22cum/hour	per hour	143.48
48	Pump with 5HP diesel engine	Pumping of Water		per hour	51.30
49	Pump with 10HP diesel engine	Pumping of Water		per hour	93.91
50	Pump with 20HP diesel engine	Pumping of Water		per hour	144.35
51	Pump with 40HP diesel engine	Pumping of Water		per hour	241.74
52	Pump with 40HP electrical			per hour	129.57
53	Pump with 50HP electrical			per hour	158.26
54	Cranes 80 tonnes	Lifting purpose		per hour	717.39
55	Cranes 35 tonnes	Lifting purpose		per hour	478.26

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Sl. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
56	Cranes 3 tonnes	Lifting purpose		per hour	200.00
57	Crawler mounted Crane (18T)	Lifting purpose		per hour	1493.04
58	Tower Crane	Lifting purpose		per hour	479.13
59	Welding transformer	Welding		per hour	70.43
60	Gunning machine without compressor			per hour	79.13
61	Mechanical Winch (10T)			per hour	194.78
62	Power Winch (40HP)			per hour	191.30
63	Concrete Bucket	For pouring concrete	1cum	per hour	8.70
64	Kerb casting machine	Kerb making	80RM/hour	per hour	173.91
65	Concrete Mixer a)04/0.28 cum	Concrete Mixing	2.5cum/hour	per hour	153.91
	b)01cum		7.5cum/hour	per hour	
66	Vibrator (3HP diesel)	Compacting Concrete		per hour	92.17
67	Piling Rig with Bantonite Pump	0.75m dia to 1.2m dia Boring Attachment	2 to 3RM/hour	per hour	3065.22
68	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	20cum/hour	per hour	1608.70
69	Integrated stone crusher	Crushing of Spalls	100TPH	per hour	4860.87
		Crushing of Spalls	200TPH	per hour	10226.09
70	Stone crusher (electrical)	Crushing of Spalls		per hour	160.00
71	Crushing & processing plant (electrical)			per hour	204.35
72	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	175cum/hour	per hour	14076.52
73	Prestressing Jack with Pump & Access	Stressing of Steel Wires/Stands		per hour	72.17
74	Generator 100KVA	Generation of Electric Energy	100KVA	per hour	391.30
75	Generator 250KVA	Generation of Electric Energy	100KVA	per hour	978.26
76	Generator 33KVA	Generation of Electric Energy	50KVA	per hour	208.70

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