

TAMIL NADU POLICE HOUSING CORPORATION LIMITED

No. 132 EVR Salai, Kilpauk, Chennai – 600 010.

Technical sanction slip

Name of work: Construction of Permanent building for Fire and Rescue Service Station with development works at Aravakurichi in Karur District under Announcement made by the Hon'ble Chief Minister.

F.S.

G.O.Ms.No.124 Home (Police-XVII) Dept. - ₹ 110.06 Lakhs

Dt:24.02.2021.

AS per the CMD ^{approval} instructions 10% of FS value ^{over} Added and the above amount may be allowed by considering in anticipation of tender savings
LS Provision for Development - ₹ 11.01 Lakhs

Special provision - ₹ —

Total - ₹ 121.07 Lakhs

Total Administrative Sanction - ₹ —

Estimate Sanctioned so for - ₹ —

- ₹ 121.07 Lakhs

Technically sanctioned for Rs.1,21,07,000/- One crore twenty ^{one} [✓] ~~two~~ lakhs and seven thousand only) and registered in CER No. 11 /2022 – 2023.

29/04/22
JDO

29/04/22
JE

29/04/22
HDO

29/4/22
Technically Sanctioned for
Rs. 1,21,07,000/-
CE/TNPHC 29/04/22

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From Ho
on 2/5/22
C.B. 87

TAMIL NADU POLICE HOUSING CORPORATION LIMITED

No: 132 E.V.R. Salai, Kilpauk, Chennai-10.

Memo No: CE/DB/1705/2021

Date. 29.04.2022.

Sub: TNPHC Ltd – HO/DB- South Circle – Mdu Dn. –
Construction of Permanent Building for Fire and Rescue
service station with development works at **Aravakurichi**
in Karur District under Hon'ble CM's Announcement
scheme – Estimate Technically sanctioned – Intimation -
Reg.

Ref: SE's Lr.No. DB/SC/4168/2021 Dt.20.04.2022.

With reference to the above, it is hereby informed that the estimate submitted by the Superintending Engineer/South Circle for the above work is technically sanctioned by the undersigned for **Rs. 1,21,07,600/-** by considering the tender savings and registered vide **CER.No: 11 / 2022-2023.**

Further, the Superintending Engineer /South Circle is informed that to give suitable instruction to the Executive Engineer /Mdu Dn concerned to complete the project within the approved fund of Rs.110.06 lakhs. ✓

The Superintending Engineer/South Circle is requested to depute a person to this office to take a copy of the above estimate.

The receipt of the memo should be acknowledged.

Sd/...
Chief Engineer/TNPHC

To

The Superintending Engineer/South Circle
TNPHC Ltd., Madurai.

Copy to the Executive Engineer / Madurai Dn.
TNPHC Ltd., Madurai

/Forwarded / By Order/

Sd. A. Kumar
29/04/22
Junior Engineer

Sd. A. Kumar
29/04/22

GENERAL ABSTRACT					
Name of work : Construction of Permanent building for Fire and Rescue Service Station with development works at Aravakurichi in Karur District under Announcement made by the Hon'ble Chief Minister.					
Sl.No.	Qty	Description	Rate	Unit	Amount
		BUILDING WORKS	AS PER PWD SR 2021-2022		
1	1.00	Main building	7071846.80	1 unit	7071846.80
		SUB - TOTAL - I Rs.	7071846.80		
		Development works			
2	1.00	RCC Sump	270317.08	1 unit	270317.08
3	1.00	Septic Tank	224220.90	1 unit	224220.90
4	1.00	Plinth protection	76509.72	1 unit	76509.72
5	1.00	Sullage drain	114830.20	1 unit	114830.20
6	1.00	UG cable arrangements & surrounding filling	311689.74	1 unit	311689.74
7	1.00	Culvert	163568.27	1 unit	163568.27
8	1.00	Borewell and External water supply arrangements	426259.20	1 unit	426259.20
		SUB - TOTAL - II Rs.	8659241.91		
9		GST at 12.0% (GST at 6% + CGST 6%)			1039109.03
		SUB - TOTAL - III Rs.	9698350.94		
10		Provision for drinking water connection	LS		20000.00
11		Provision for Soil investigation	LS		10000.00
		SUB - TOTAL - III Rs.	9728350.94		
12		Labour Welfare fund @ 1.0%	As pr PWD Norms		97283.51
13		unforeseen, Contingencies & PS charges @2.5%	As pr PWD Norms		243739.23
14		Supervision Charges @ 7.5%	-		729626.32
		SUB - TOTAL - V Rs.	10799000.00		
15		Advertisement charges	LS		50000.00
16		Provision for EB Deposits	LS		75000.00
17		Provision for CMWSSB (Metro water and sewer connection charges)	LS		50000.00
18		Structural Design / Consultancy charges	LS		32000.00
		GRAND TOTAL Rs.	11006000.00		

NAME OF WORK: CONSTRUCTION OF PERMANENT BUILDING FOR FIRE AND RESCUE SERVICES STATION WITH DEVELOPMENT WORKS AT ARAVAKURICHI IN KARUR DISTRICT

Sl.No	Description	Estimate Rate for the year 2021-2022				Rate quoted by Thiru. A. Venkatesan		Rate quoted by M/s. RK and Co		Rate quoted by M/s. VKS Infratec Projects		Ab-Sub Normal
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
1	1.1) Earth work excavation for foundation in all soils (including refilling) a. 0 to 2 mt.	326.00	1 Cum	204.40	66634.40	150.00	48900.00	150.00	48900.00	222.00	72372.00	-26.61
2	1.5) Earth work excavation for Open foundation (excluding refilling) a. 0 to 2 mt.	113.30	1 Cum	96.60	10944.78	100.00	11330.00	150.00	16995.00	105.00	11896.50	55.28
3	b. 2 to 3 mt.	12.70	1 Cum	105.90	1344.93	120.00	1524.00	220.00	2794.00	114.00	1447.80	107.74
4	1.6) Earth work excavation for Open foundation for drains (excluding refilling) width upto 1.25 m a. 0 to 2 mt.	16.20	1 Cum	144.90	2347.38	100.00	1620.00	193.00	3126.60	120.00	1944.00	33.20
5	2.6) Supplying and filling with 40mm HBSJ	6.00	1 Cum	1173.90	7043.40	1000.00	6000.00	202.00	1212.00	1300.00	7800.00	-82.79
6	2.7) Supplying and filling with 20mm HBSJ	2.00	1 Cum	1576.90	3153.80	1000.00	2000.00	1084.00	2168.00	1700.00	3400.00	-31.26
7	13.1) Filling with excavated earth	67.20	1 Cum	33.60	2257.92	20.00	1344.00	50.00	3360.00	37.00	2486.40	48.81
8	21.2) Teak wood Wrought & Put up a. T.W. over 2.00 m & below 3.00 m	0.1575	1 Cum	123400.00	19435.50	115000.00	18112.50	123400.00	19435.50	130000.00	20475.00	
9	b. T.W. below 2.00 m length.	0.0675	1 Cum	111200.00	7506.00	115000.00	7762.50	111200.00	7506.00	120000.00	8100.00	
10	23.3) Supplying and fixing of Magnetic door catches	6.00	Each	52.00	312.00	60.00	360.00	52.00	312.00	55.00	330.00	
11	24) Manufacturing & supply of steel windows (weight basis)	811.40	1 Kg	62.10	50387.94	110.00	89254.00	62.00	50306.80	85.00	68969.00	-0.16
12	25) Supplying and fixing of MS hold fast	36.00	Each	9.60	345.60	10.00	360.00	10.00	360.00	10.00	360.00	4.17

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		Qty	Unit	Rate	Amount	Rate	Amount		Rate	Amount		Rate	Amount		
13	30) Ellispattern flooring	16.00	1 Sqm	393.37	6293.92	300.00	4800.00		393.00	6288.00		450.00	7200.00		-0.09
14	37.1) White washing 3 coats (slaked)	324.80	1 Sqm	39.22	12738.66	30.00	9744.00		40.00	12992.00		40.00	12992.00		1.99
15	39) Supplying and fixing of MS Grills in position	406.00	1 Kg	62.60	25415.60	110.00	44660.00		63.00	25578.00		75.00	30450.00		0.64
16	40) Painting 2 coats - New "wood work"	92.80	1 Sqm	212.24	19695.87	110.00	10208.00		212.00	19673.60		210.00	19488.00		-0.11
17	41) Painting 2 coats - New "iron work"	72.40	1 Sqm	125.87	9112.99	110.00	7964.00		125.00	9050.00		150.00	10860.00		-0.69
18	46) Supplying and fixing of 20 mm dia Alu. Hanger Rod	8.00	1 Rmt	58.00	464.00	80.00	640.00		50.00	400.00		60.00	480.00		-13.79
19	47) Supplying and fixing of Alu. Towel rail 75 cm long	8.00	Each	95.00	760.00	80.00	640.00		100.00	800.00		100.00	800.00		5.26
20	48) Supplying and fixing of 5 pin Coat stand	10.00	Each	55.00	550.00	80.00	800.00		50.00	500.00		55.00	550.00		-9.09
21	49) Supplying and fixing of Chromium plated 8 gauge picture hook	100.00	Each	1.50	150.00	3.00	300.00		2.00	200.00		1.50	150.00		33.33
22	50.3) Supplying and planting avenue trees	5.00	Each	346.36	1731.80	300.00	1500.00		300.00	1500.00		300.00	1500.00		-13.38
23	50.4) Providing Tree guard	5.00	Each	812.30	4061.50	500.00	2500.00		800.00	4000.00		600.00	3000.00		-1.51
24	52) Supplying and laying of PVC Water supply (ASTM) pipe a. 32 mm dia	50.00	1 Rmt	227.05	11352.50	210.00	10500.00		227.00	11350.00		230.00	11500.00		-0.02
25	b. 25 mm dia	92.60	1 Rmt	209.81	19428.41	200.00	18520.00		208.00	19260.80		220.00	20372.00		-0.86
26	52.1) Supplying and fixing of G.I. Pipe 20mm dia for hot water line (Fully concealed in walls)	15.00	1 Rmt	287.85	4317.75	190.00	2850.00		286.00	4290.00		200.00	3000.00		-0.64

Aravakurichi													Page - 3
Sl.No	Description	Estimate Rate for the year 2021-2022				Rate quoted by Thirun. A. Venkatesan		Rate quoted by M/s. RK and Co		Rate quoted by M/s. VKS Infratec Projects		Ab-Sub Normal	
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
27	53.3) Supplying and fixing of C.I. steps (5 Kg)	5.00	Each	30.00	150.00	20.00	100.00	30.00	150.00	35.00	175.00		
28	55.2) Supplying and fixing of Flat Back Urinal with Accessories	2.00	Each	2016.25	4032.50	800.00	1600.00	2016.00	4032.00	2000.00	4000.00	-0.01	
29	Electrical arrangements 69) Supplying and fixing of 15 Amps pin Power plug socket	10.00	Each		1387.00	140.00	1400.00	138.00	1380.00	150.00	1500.00	-0.50	
30	72) Supplying and fixing of Box type Fibre Fan hook	14.00	Each	33.90	474.60	50.00	700.00	33.00	462.00	35.00	490.00	-2.65	
31	73.2) Supplying and fixing of 3 phase Distribution board with 4 way per phase 32A per way with neutral link	2.00	Each	3343.00	6686.00	3500.00	7000.00	5000.00	10000.00	3400.00	6800.00	49.57	
32	74) Charges for assembling and fixing of ceiling "Fan"	8.00	Each	520.80	4166.40	200.00	1600.00	100.00	800.00	500.00	4000.00	-80.80	
33	76) Supplying and fixing of 8 SWG G.I. wire	23.00	1 Rmt	23.80	547.40	20.00	460.00	30.00	690.00	25.00	575.00	26.05	
34	77.3) Supplying and fixing of TV/Telephone line Socket	4.00	Each	76.70	306.80	100.00	400.00	77.00	308.00	77.00	308.00	0.39	
35	77.4) Supplying and fixing of 20mm dia PVC pipe for TV/Telephone line	30.00	1 Rmt	79.65	2389.50	100.00	3000.00	77.00	2310.00	80.00	2400.00	-3.33	
36	78) Providing Earthing Station using pipe electrode as per IS3043 (Type I)	2.00	Each	2746.00	5492.00	2000.00	4000.00	2723.00	5446.00	2700.00	5400.00	-0.84	
37	81) Supplying and fixing of meter cupboard with best Country wood double leaves shutters	0.75	1 Sqm	2363.98	1772.99	2000.00	1500.00	2363.00	1772.25	1700.00	1275.00	-0.04	
38	86) Providing Pre-construction Anti termite treatment	239.30	1 Sqm	34.00	8136.20	30.00	7179.00	40.00	9572.00	35.00	8375.50	17.65	
39	112) Supplying and fixing of Exhaust Fan 300 mm dia	3.00	Each	2146.00	6438.00	1000.00	3000.00	2110.00	6330.00	2150.00	6450.00	-1.68	

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
40	Annexure 2.1.1) Supplying and filling the basement with gravel	251.00	1 Cum	305.55	76693.05	550.00	138050.00	250.00	62750.00	550.00	138050.00	-18.18
41	2.1.3) Supplying and filling in foundation and basement with Crushed stone sand	52.70	1 Cum	1548.80	81621.76	1000.00	52700.00	156.00	8221.20	1500.00	79050.00	-89.93
42	2.1.4) Supplying filling the lowlying area with conveyed gravel in the lowlying area	649.10	1 Cum	292.51	189868.24	500.00	324550.00	200.00	129820.00	550.00	357005.00	-31.63
43	2.1.6) Supplying of Stone dust	45.00	1 Cum	198.90	8950.50	300.00	13500.00	200.00	9000.00	350.00	15750.00	0.55
44	3.1.1) C.C.1:5:10 using 40mm size HBSJ for Foundation & Basement using crushed stone sand	36.60	1 Cum	4316.84	157996.34	4100.00	150060.00	4500.00	164700.00	4200.00	153720.00	4.24
45	3.2.1) P.C.C. 1:2:4 using 20mm size HBSJ for Foundation & Basement and other similar works using crushed stone sand	6.40	1 Cum	5838.17	37364.29	5500.00	35200.00	5000.00	32000.00	5000.00	32000.00	-14.36
46	3.10.1) P.C.C. 1:3:6 with 20mm HBSJ using crushed stone sand for foundation and basement	9.40	1 Cum	5194.49	48828.21	4000.00	37600.00	5000.00	47000.00	4500.00	42300.00	-3.74
47	4.4.1) Standardized Concrete mix M20 Grade using crushed stone sand a. In Foundation and basement	81.70	1 Cum	7154.13	584492.42	6500.00	531050.00	6000.00	490200.00	7000.00	571900.00	-16.13
48	6.6.1) Brick work in C.M. 1:5 (F&B) using Kiln Burnt Country bricks of size 22 x 11 x 7 cm (8 3/4 " x 4 1/4 " x 2 3/4 ") using crushed stone sand	83.40	1 Cum	6204.54	517458.64	6000.00	500400.00	6000.00	500400.00	6500.00	542100.00	-3.30
49	8.4.1) Standardized Concrete mix M20 Grade using crushed stone sand a. In Ground Floor	36.65	1 Cum	7257.43	265984.81	6600.00	241890.00	6000.00	219900.00	7200.00	263880.00	-17.33
50	b. In First Floor	37.30	1 Cum	7460.93	278292.69	6700.00	249910.00	6500.00	242450.00	7500.00	279750.00	-12.88

SLNo	Description	Estimate Rate for the year 2021-2022				Rate quoted by Thiru. A. Venkatesan		Rate quoted by M/s. RK and Co		Rate quoted by M/s. VKS Infratec Projects		Ab-Sub Normal
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
51	9.6.1) Brick work in C.M. 1:6 using Kiln Burnt Country bricks of size 22x11x7cm (8 3/4 " x 4 1/4 " x 2 3/4 ") using crushed stone sand a. In Ground Floor	62.90	1 Cum	6201.02	390044.16	6100.00	383690.00	6000.00	377400.00	6600.00	415140.00	-3.24
52	b. In First Floor	33.80	1 Cum	6338.22	214231.84	6200.00	209560.00	6000.00	202800.00	6700.00	226460.00	-5.34
53	10.6.1) Brick partition work in C.M. 1:4 using Kiln Burnt Country bricks of size 22x11x7 cm (8 3/4 "x4 1/4 "x2 3/4 ") 110 mm tk (B.P.) using crushed stone sand a. In Foundation and basement	152.40	1 Sqm	744.91	113524.28	700.00	106680.00	750.00	114300.00	800.00	121920.00	0.68
54	b. In Ground Floor	41.60	1 Sqm	752.39	31299.42	710.00	29536.00	750.00	31200.00	810.00	33696.00	-0.32
55	c. In First Floor	32.40	1 Sqm	767.48	24866.35	720.00	23328.00	800.00	25920.00	820.00	26568.00	4.24
56	11.6.1) Brick work in C.M. 1:4 using Kiln Burnt Country bricks of size 22x11x7cm (8 3/4 " x 4 1/4 " x 2 3/4 ") using crushed stone sand 70 mm tk (B.P.) a. In Ground Floor	13.90	1 Sqm	510.10	7090.39	400.00	5560.00	520.00	7228.00	550.00	7645.00	1.94
57	12.1.1) Brick partition work in C.M. 1:4 using kiln burnt Country bricks of size 22 x11 x 5 cm (8 3/4 "x 4 1/4 "x 2 ") using crushed stone sand 50mm tk. a. In Ground Floor	6.00	1 Sqm	371.75	2230.50	400.00	2400.00	500.00	3000.00	400.00	2400.00	34.50
58	14.2.2) Precast Cupboard slab 20mm tk in standardised concrete mix M20 Grade by using 3mm - 10mm HBGS Jelly using crushed stone sand 20MM thick a. In Ground floor	28.10	1 Sqm	1281.86	36020.27	1000.00	28100.00	1000.00	28100.00	1200.00	33720.00	-21.99

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		Qty	Unit	Rate	Amount	Rate	Amount		Rate	Amount		Rate	Amount		
59	14.2.3) Precast Cupboard slab 40mm tk in standardised concrete mix M20 Grade by using 3mm - 10mm HBGS Jelly using crushed stone sand 40MM Thick a. In Foundation & Basement	15.90	1 Sqm	1412.84	22464.16	1000.00	15900.00		1000.00	15900.00		1300.00	20670.00		-29.22
60	16.1.1) Precast Jally ventilator 50mm thick using standardised concrete mix M20 Grade using crushed stone sand a. In Ground Floor	6.00	1 Sqm	2564.70	15388.20	1600.00	9600.00		2500.00	15000.00		2500.00	15000.00		-2.52
61	18.1) Formwork using M.S.Sheet a. For Column footings, plinth beam, Grade beam, Rafter, Raft slab etc.,	201.80	1 Sqm	739.38	149206.88	600.00	121080.00		700.00	141260.00		700.00	141260.00		-5.33
62	b. Plain surfaces such as Roof slab, floor slab, Beams, lintels, lofts, sill slab, staircase, portico slab and other similar works	383.00	1 Sqm	831.23	318361.09	600.00	229800.00		700.00	268100.00		750.00	287250.00		-15.79
63	c. For Square and rectangular columns and small quantities	300.30	1 Sqm	997.48	299543.24	700.00	210210.00		700.00	210210.00		750.00	225225.00		-29.82
64	d. For Vertical wall	45.90	1 Sqm	914.35	41968.67	850.00	39015.00		800.00	36720.00		850.00	39015.00		-12.51
65	f. For Curved surface	13.90	1 Sqm	1246.85	17331.22	900.00	12510.00		1500.00	20850.00		1000.00	13900.00		20.30
66	g. For Double centering	294.00	1 Sqm	1662.46	488763.24	800.00	235200.00		1500.00	441000.00		1250.00	367500.00		-9.77
67	21.5.2) Supplying and fixing of solid UPVC door shutter with frame	6.30	1 Sqm	3167.00	19952.10	3500.00	22050.00		3500.00	22050.00		3200.00	20160.00		10.51
68	22.3.3) Cup board/ward robes double leaf shutters using 9mm thick phenol bonded BWR grade plywood, TW frames, styles & rails including two coat enamel paint over one coat primer with brass screws	15.20	1 Sqm	4024.10	61166.32	3300.00	50160.00		4000.00	60800.00		4000.00	60800.00		-0.60

Sl.No	Description	Estimate Rate for the year 2021-2022				Rate quoted by Thiru. A. Venkatesan		Rate quoted by M/s. RK and Co		Rate quoted by M/s. VKS Infratec Projects		Abs-Sub Normal
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
69	22.9) Solid core TW flush door with Teak ply on both sides and TW lipping alround (35mm thick) Single leaf shutter Suitable for door of size a) 900 x 2100mm	1.70	1 Sqm	2993.36	5088.71	1800.00	3060.00	5000.00	8500.00	3500.00	5950.00	67.04
70	b) 1000 x 2100mm	7.70	1 Sqm	2930.13	22562.00	2000.00	15400.00	6000.00	46200.00	3500.00	26950.00	104.77
71	23.2.1) Supplying and fixing of 4mm thick pin headed glass panels with Aluminium beedings	19.70	1 Sqm	708.10	13949.57	700.00	13790.00	650.00	12805.00	800.00	15760.00	-8.21
72	26.1) Flooring in C.C.1:5:10 using 40mm size HBSJ using crushed stone sand	28.10	1 Cum	4316.84	121303.20	4100.00	115210.00	4000.00	112400.00	4200.00	118020.00	-7.34
73	28.1) Floor plastering in C.M. 1:4, 20mm thick. using crushed stone sand	252.60	1 Sqm	448.37	113258.26	300.00	75780.00	200.00	50520.00	420.00	106092.00	-55.39
74	29.8.1) Supplying and fixing of Glazed tiles using Grout (Tile Joint Filler) using crushed stone sand	35.00	1 Sqm	1236.37	43272.95	1000.00	35000.00	1000.00	35000.00	1200.00	42000.00	-19.12
75	29.9.1) Supplying and laying of Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler), using crushed stone sand	13.60	1 Sqm	1092.22	14854.19	1000.00	13600.00	1000.00	13600.00	1200.00	16320.00	-8.44
76	32.1.3) Finishing the top of terrace floor with one course of Anti reflective ceramic tiles (Cooling tiles) 305mmx305mmx7mm tk in C.M 1:3 20mm tk including Base concrete using crushed stone sand	294.90	1 Sqm	1533.17	452131.83	1100.00	324390.00	1000.00	294900.00	1300.00	383370.00	-34.78
77	33.1) Plastering in C.M. 1:5, 12 mm tk. using crushed stone sand	2132.30	1 Sqm	220.72	470641.26	200.00	426460.00	200.00	426460.00	250.00	533075.00	-9.39
78	34.1) Plastering in C.M. 1:4, 12 mm tk. using crushed stone sand	190.40	1 Sqm	226.73	43169.39	210.00	39984.00	200.00	38080.00	250.00	47600.00	-11.79
79	35.1.1) Plastering in CM 1:3, 12 mm tk. with WPC using crushed stone sand	26.70	1 Sqm	245.20	6546.84	220.00	5874.00	250.00	6675.00	250.00	6675.00	1.96

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
80	35.2) Spl. Ceiling plastering in C.M 1:3, 10 mm tk. using crushed stone sand	324.80	1 Sqm	252.54	82024.99	220.00	71456.00	280.00	90944.00	265.00	86072.00	10.87	
81	36.1) Plastering for Border in C.M. 1:5, 12 mm tk. using crushed stone sand a. 150 mm wide	115.80	1 Rmt	69.96	8101.37	50.00	5790.00	60.00	6948.00	75.00	8685.00	-14.24	
82	b. 75 mm wide	132.30	1 Rmt	45.49	6018.33	40.00	5292.00	60.00	7938.00	50.00	6615.00	31.90	
83	c. 50 mm wide	115.80	1 Rmt	33.84	3918.67	35.00	4053.00	60.00	6948.00	36.00	4168.80	77.30	
84	38.4.1) Two coat of Oil Bound Distemper over the primer coat of white cement	966.20	1 Sqm	109.44	105740.93	80.00	77296.00	80.00	77296.00	120.00	115944.00	-26.90	
85	38.6) Primer coat using one coat of white cement over the cement plastered/ concrete new wall surfaces or other similar works	966.20	1 Sqm	53.72	51904.26	30.00	28986.00	40.00	38648.00	60.00	57972.00	-25.54	
86	43.1) Supplying, Fabricating and fixing of Mild steel / RTS grills (without cement slurry wash) reinforcement for all sizes of rods	18.294	1 MT	78398.00	1434213.01	95000.00	1737930.00	75000.00	1372050.00	80000.00	1463520.00	-4.33	
87	44.2.1) Rain water harvesting using defunct borewell and providing perforated cover slab in Standardised concrete mix M20 Grade by using 3mm-10mm HBGS Jelly using crushed stone sand a) Providing pit	4.00	Each	1845.24	7380.96	1000.00	4000.00	1800.00	7200.00	1800.00	7200.00	-2.45	
88	b) Augering 30cm dia	12.00	1 Rmt	424.94	5099.28	100.00	1200.00	400.00	4800.00	450.00	5400.00	-5.87	
89	44.3) Providing Rain water Harvesting Well ring of Circular shape of 90cm dia, 60cm depth using Standardised mix design M20	4.00	Each	1268.32	5073.28	1500.00	6000.00	1300.00	5200.00	1300.00	5200.00	2.50	
90	44.6) Supplying and fixing of PVC SWR 110 mm dia with ISI mark type-A for rain water down fall pipe	77.40	1 Rmt	321.74	24902.68	300.00	23220.00	450.00	34830.00	350.00	27090.00	39.86	

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
91	50.2.1) Providing precast Kerb stone in C.C. 1:3:6, 450x300x150 mm using crushed stone sand	40.00	1 Rmt	239.13	9565.20	300.00	12000.00	250.00	10000.00	250.00	10000.00	4.55
92	50.5.1) Supplying fabricating and erection of M.S Scheme name board using crushed stone sand	1.00	Each	17162.51	17162.51	10000.00	10000.00	10000.00	10000.00	17700.00	17700.00	-41.73
93	50.6.1) Precast slab 50 mm tk in C.C. 1:3:6 mixed with fibre using crushed stone sand	41.10	1 Sqm	367.47	15103.02	300.00	12330.00	1000.00	41100.00	350.00	14385.00	172.13
94	51.1) Supplying and erection of rotational moulded polyethylene water storage tanks (HDPE cylindrical vertical type) for outdoor use having capacity of 1000 litres	2.00	Each	9600.00	19200.00	8500.00	17000.00	8000.00	16000.00	12000.00	24000.00	-16.67
95	52.4) Supplying laying fixing and jointing the following PVC pipes as per ASTM D-1785 of schedule 40 threaded PVC water supply ASTM pipe (fully consealed in walls) with necessary PVC/GI specials c. 20mm dia	30.00	1 Rmt	207.02	6210.60	200.00	6000.00	200.00	6000.00	220.00	6600.00	-3.39
96	53.4) Supplying and fixing of CI Manhole cover of size 60 x 60cm (50kg weight)	3.00	Each	1846.00	5538.00	2000.00	6000.00	3000.00	9000.00	2000.00	6000.00	62.51
97	53.5) Supplying and fixing of Wash hand basin (white) of size 550 mm x 400 mm	4.00	Each	3104.82	12419.28	3000.00	12000.00	3000.00	12000.00	3000.00	12000.00	-3.38
98	54.1.1) Supplying and fixing of 15mm dia Half turn Brass core C.P. Tap (long body)	6.00	Each	467.00	2802.00	600.00	3600.00	450.00	2700.00	250.00	1500.00	-3.64
99	54.2.1) Supplying and fixing of 15mm dia Half turn Brass core C.P. Tap (Short body)	6.00	Each	419.00	2514.00	500.00	3000.00	400.00	2400.00	250.00	1500.00	-4.53
100	56.3.2) Supplying and fixing of Indian Water closet white glazed (Oriya type) of size 580 x 440mm with PVC SWR Grade 'P' or 'S' trap - in G.F. using crushed stone sand	1.00	Each	3049.15	3049.15	3000.00	3000.00	5000.00	5000.00	3200.00	3200.00	63.98

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount			
101	57.2) Supplying and fixing of EWC (White) 500mm with PVC SWR grade "P" or "S" Trap	2.00	Each	6501.30	13002.60	6000.00	12000.00	6000.00	12000.00	6500.00	13000.00			-7.71
102	58.3) Supplying and fixing of PVC SWR pipe (Soil line) with ISI mark - type 'B'. a. 110 mm dia.	24.00	1 Rmt	657.29	15774.96	500.00	12000.00	650.00	15600.00	700.00	16800.00			-1.11
103	b. 75 mm dia	22.10	1 Rmt	541.42	11965.38	450.00	9945.00	500.00	11050.00	575.00	12707.50			-7.65
104	58.4) Supplying, Laying & Concealing the 50mm dia PVC (SWR) pipe with ISI mark type 'B' with relevant specials.	28.00	1 Rmt	114.45	3204.60	100.00	2800.00	110.00	3080.00	115.00	3220.00			-3.89
105	58.5) Supplying and fixing of PVC (SWR) pipe with ISI mark - type 'A' for Ventilating shaft with cowl a) 110mm dia PVC SWR pipe of 3m with required PVC cowl & PVC specials etc.,	1.00	Each	450.10	450.10	550.00	550.00	120.00	120.00	700.00	700.00			-73.34
106	59.5.2) Supplying and fixing of Gully Trap using Kiln burnt country bricks of size 22 x 11 x 7 cm. using crushed stone sand	4.00	Each	1759.52	7038.08	800.00	3200.00	1700.00	6800.00	1700.00	6800.00			-3.38
107	60.1) Supplying and fixing of PVC Nahani trap (4way/2way)	12.00	Each	152.60	1831.20	140.00	1680.00	180.00	2160.00	135.00	1620.00			17.96
108	61.1.1) Supplying and fixing of UPVC Non Pressure Pipe of SN8 SDR 34 (S 16.5) as per IS 15328/2003 a) 110mm dia UPVC Non Pressure pipe	107.00	1 Rmt	444.77	47590.39	450.00	48150.00	650.00	69550.00	450.00	48150.00			46.14
109	b) 160mm dia UPVC Non Pressure pipe	59.00	1 Rmt	755.84	44594.56	450.00	26550.00	900.00	53100.00	770.00	45430.00			19.07
110	62.1.1) Supplying and fixing of PVC Bend fabricated 6 KSC PVC specials as per IS 10124/1982 Part II a) 110mm dia PVC Bend	2.00	Each	173.00	346.00	300.00	600.00	100.00	200.00	200.00	400.00			-42.20
111	b) 160mm dia PVC Bend	2.00	Each	553.00	1106.00	300.00	600.00	100.00	200.00	200.00	400.00			-81.92

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		Qty	Unit	Rate	Amount		Rate	Amount	Rate	Amount	Rate	Amount	
112	62.2.1) Supplying and fixing of PVC Equal Tee (mould) BIS 7834/1975 PVC specials as per IS 10124/1982 Part-II a) 110mm dia PVC Equal Tee	2.00	Each	195.00	390.00		300.00	600.00	100.00	200.00	200.00	400.00	-48.72
113	b) 160mm dia PVC Equal Tee	2.00	Each	367.00	734.00		300.00	600.00	100.00	200.00	200.00	400.00	-72.75
114	64.1) Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990. a. Light point with ceiling rose	37.00	Each Point	1500.00	55500.00		1000.00	37000.00	1000.00	37000.00	1300.00	48100.00	-33.33
115	b. Light point without ceiling rose												
116	c. Calling bell point with Buzzer/Calling bell	16.00	Each Point	1505.00	24080.00		1000.00	16000.00	1000.00	16000.00	1300.00	20800.00	-33.55
117	65.1) Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Fan Point	1.00	Each Point	1532.00	1532.00		1000.00	1000.00	1000.00	1000.00	1400.00	1400.00	-34.73
118	66.1) Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for Staircase Light Point.	2.00	Each Point	2802.60	5605.20		1500.00	3000.00	2000.00	4000.00	2500.00	5000.00	-28.64
119	67.1) Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for 5 amps 5 pin plug socket point at Switch Board Itself.	10.00	Each Point	765.00	7650.00		700.00	7000.00	600.00	6000.00	750.00	7500.00	-21.57
120	68.2) Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for 5 amps 5 pin plug socket point at Convenient Places.	7.00	Each Point	1041.50	7290.50		800.00	5600.00	1000.00	7000.00	1000.00	7000.00	-3.98
121	71.2) Supplying and fixing of 32 Amps triple pole main switch	2.00	Each	2083.67	4167.34		2000.00	4000.00	2000.00	4000.00	1500.00	3000.00	-4.02

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
122	75.1.2) Supplying and delivery of fan with electronic dimmer with ISI mark a) 48" (1200mm) sweep	8.00	Each	1438.00	11504.00	1550.00	12400.00	1800.00	14400.00	1500.00	12000.00	25.17
123	77.5) Run off 2 Wires of 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 in fully concealed	18.00	1 Rmt	192.60	3466.80	150.00	2700.00	200.00	3600.00	200.00	3600.00	3.84
124	77.7) Run off 2 Wires of 2.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 in fully concealed	110.00	1 Rmt	209.80	23078.00	170.00	18700.00	200.00	22000.00	210.00	23100.00	-4.67
125	79.1.1) Supplying and fixing of 1 No. of 32 Amps Fuse Unit	1.00	Each	508.26	508.26	400.00	400.00	700.00	700.00	700.00	700.00	37.72
126	79.2.1) Supplying and fixing of 3 Nos. of 32 Amps Fuse Unit	1.00	Each	776.70	776.70	500.00	500.00	400.00	400.00	770.00	770.00	-48.50
127	85.1) Supplying of G.I pipe 40 mm dia. 'B' class	62.40	1 Rmt	165.00	10296.00	100.00	6240.00	300.00	18720.00	165.00	10296.00	81.82
128	87.1) Supplying and fixing of Three Phase ELCB/RCCB	1.00	Each	2971.60	2971.60	3800.00	3800.00	2000.00	2000.00	3000.00	3000.00	-32.70
129	87.2) Supplying and fixing of 20 Amps DP plug and socket in sheet enclosure with 32A DP MCB in Flush with wall with earth connection (For AC Plug)	2.00	Each	1879.00	3758.00	900.00	1800.00	600.00	1200.00	1800.00	3600.00	-68.07
130	99.1) T.W. single leaf Panelled door shutter with brass fittings Suitable for door of size a. 1000 x 2100mm	1.90	1 Sqm	6457.49	12269.23	5500.00	10450.00	2400.00	4560.00	4750.00	9025.00	-62.83
131	100) Supplying and fixing of 9 watts LED Bulb	18.00	Each	134.00	2412.00	90.00	1620.00	130.00	2340.00	135.00	2430.00	-2.99
132	101) Supplying and fixing of 25 watts LED bulb with street light fittings	6.00	Each	3190.00	19140.00	2000.00	12000.00	2500.00	15000.00	3500.00	21000.00	-21.63

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount				
133	102) Supplying and fixing of 4'18 watts crystal LED tube light	31.00	Each	665.00	20615.00	550.00	17050.00	500.00	15500.00	650.00	20150.00	-24.81			
134	103) Supplying and fixing of Bulk Head fitting suitable for 12 watts LED Lamp	6.00	Each	486.00	2916.00	110.00	660.00	400.00	2400.00	500.00	3000.00	-17.70			
135	104) Supplying and fixing of 12 watts LED lamp for bulk head fittings	6.00	Each	170.00	1020.00	500.00	3000.00	450.00	2700.00	500.00	3000.00	164.71			
136	105.1) Run off main 4 wires of 4 Sq mm. (EB service connection)	5.00	1 Rmt	251.18	1255.90	240.00	1200.00	200.00	1000.00	220.00	1100.00	-20.38			
137	108) Supplying and fixing of 4 Pole RCCB / ELCB 40 Amps 30MA	1.00	Each	2743.00	2743.00	3000.00	3000.00	2000.00	2000.00	2870.00	2870.00	-27.09			
138	110) Supplying and fixing of Single Pole MCB 6A to 32A, 10KA	6.00	Each	127.00	762.00	200.00	1200.00	500.00	3000.00	2000.00	12000.00	293.70			
139	114) Supplying and delivery of 3.5 core 35 Sqmm PVC Aluminium armoured LTUG cable	79.00	1 Rmt	241.60	19086.40	350.00	27650.00	150.00	11850.00	500.00	39500.00	-37.91			
140	115) Labour charges for laying of 3.5 core 35 Sqmm PVC Aluminium armoured LTUG cable below ground level	70.00	1 Rmt	245.46	17182.20	240.00	16800.00	100.00	7000.00	300.00	21000.00	-59.26			
141	116) Labour charges for laying of 3.5 core 35 Sqmm PVC Aluminium armoured LTUG cable above ground level	9.00	1 Rmt	160.70	1446.30	150.00	1350.00	350.00	3150.00	275.00	2475.00	117.80			
142	117) Supplying and fixing of 3.5 core 35 Sqmm Brass cable Gland suitable for PVC Aluminium armoured LTUG cable	1.00	Each	61.10	61.10	300.00	300.00	450.00	450.00	350.00	350.00	636.50			
143	119) Supplying and delivery of 5 HP clear water vertical wet type submersible pumpset three phase suitable for borewell Duty -50 lpm x 175 m	1.00	Each	57424.00	57424.00	36000.00	36000.00	40000.00	40000.00	55000.00	55000.00	-30.34			
144	119.1) Supplying and delivery of 2 HP Monoblock pumpset Duty - 100 lpm x 20 m	2.00	Each	12120.00	24240.00	19000.00	38000.00	22000.00	44000.00	15000.00	30000.00	81.52			

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
145	120) Labour charges for erection of submersible pumpset in borewell upto 5 HP	1.00	Each	10051.10	10051.10	6000.00	6000.00	5000.00	5000.00	10000.00	10000.00	-50.25
146	120.1) Labour charges for erection of Horizontal shaft, Centrifugal pumpset upto 3 HP (coupled/monoblock)	2.00	Each	7391.80	14783.60	4500.00	9000.00	5000.00	10000.00	7500.00	15000.00	-32.36
147	121.1) Supplying and delivery of three phase panel board of direct online starter with two level guard and auto start (5 HP)	1.00	Each	14492.00	14492.00	12500.00	12500.00	10000.00	10000.00	13500.00	13500.00	-31.00
148	121.2) Supplying and delivery of Direct online starter with single phasing preventor 2 HP for Monoblock motor	2.00	Each	5249.00	10498.00	6500.00	13000.00	10000.00	20000.00	7100.00	14200.00	90.51
149	122) Supplying and fixing of following dia GI, CI & GM specials a) 50 mmx32mm dia GI Reducer Tee	5.00	Each	139.80	699.00	160.00	800.00	200.00	1000.00	150.00	750.00	43.06
150	b) 50 mm dia GI Coupling	16.00	Each	69.80	1116.80	120.00	1920.00	150.00	2400.00	60.00	960.00	114.90
151	c) 50mm dia GM Gate valve (Heavy Duty)	3.00	Each	1229.00	3687.00	1900.00	5700.00	800.00	2400.00	1200.00	3600.00	-34.91
152	d) 50mm dia GM Non return valve	1.00	Each	2082.00	2082.00	2500.00	2500.00	400.00	400.00	1200.00	1200.00	-80.79
153	e) 50mm dia GI Union	3.00	Each	266.30	798.90	350.00	1050.00	100.00	300.00	260.00	780.00	-62.45
154	f) 50mm dia GI Hex Nipple	5.00	Each	87.00	435.00	180.00	900.00	100.00	500.00	68.00	340.00	14.94
155	g) 50mm dia C.I foot valve with strainer	1.00	Each	434.00	434.00	650.00	650.00	100.00	100.00	500.00	500.00	-76.96
156	h) 50mm dia GI Tee	3.00	Each	139.80	419.40	350.00	1050.00	100.00	300.00	150.00	450.00	-28.47
157	i) 50mm dia GI Bend	5.00	Each	116.30	581.50	270.00	1350.00	100.00	500.00	120.00	600.00	-14.02
158	j) 32mm dia GI Union	2.00	Each	127.50	255.00	140.00	280.00	100.00	200.00	275.00	550.00	-21.57

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		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount			
159	k) 32mm dia GI Elbow	2.00	Each	87.00	174.00	80.00	160.00	100.00	200.00	75.00	150.00	14.94		
160	l) 32mm dia GI Hex Nipple	2.00	Each	58.10	116.20	65.00	130.00	100.00	200.00	75.00	150.00	72.12		
161	m) 25mm dia GI Coupling	2.00	Each	28.60	57.20	60.00	120.00	100.00	200.00	50.00	100.00	249.65		
162	123) Supplying and Delivery of 3 core of 4 Sqmm flat type copper cable	275.00	1 Rmt	186.00	51150.00	165.00	45375.00	200.00	55000.00	186.00	51150.00	7.53		
163	124) Supplying and delivery of following dia GI pipes 'B' class in position a) 25mm dia GI pipe	15.00	1 Rmt	128.00	1920.00	120.00	1800.00	200.00	3000.00	280.00	4200.00	56.25		
164	b) 40mm dia GI pipe	5.00	1 Rmt	163.00	815.00	200.00	1000.00	220.00	1100.00	200.00	1000.00	34.97		
165	c) 50mm dia GI pipe	92.00	1 Rmt	209.00	19228.00	450.00	41400.00	250.00	23000.00	200.00	18400.00	19.62		
166	125) Supplying and delivery of following dia PVC Pipe a) 50mm dia PVC pipe/10 Kg/cm2	50.00	1 Rmt	144.70	7235.00	260.00	13000.00	300.00	15000.00	150.00	7500.00	107.33		
167	b) 32mm dia PVC pipe/10 Kg/cm2	15.00	1 Rmt	61.70	925.50	180.00	2700.00	220.00	3300.00	65.00	975.00	256.56		
168	125.1) Labour charges for laying of PVC pipe below ground level	65.00	1 Rmt	80.70	5245.50	150.00	9750.00	80.00	5200.00	85.00	5525.00	-0.87		
169	125.3) Supplying of 32mm dia UPVC column pipe for bore inner	250.00	1 Rmt	124.00	31000.00	350.00	87500.00	200.00	50000.00	150.00	37500.00	61.29		
170	129.1) Supplying and fixing in position of Aluminium die casting TNPHC Logo emblem a) 60 cm size	1.00	Each	3000.00	3000.00	3500.00	3500.00	10000.00	10000.00	4000.00	4000.00	233.33		
171	130) Supplying and fixing of Aluminium Dye cast letters a) Aluminium Dye Cast letter 9" size	52.00	Each	1092.00	56784.00	2500.00	130000.00	500.00	26000.00	720.00	37440.00	-54.21		
172	b) Aluminium Dye Cast letter 6" size	56.00	Each	693.00	38808.00	650.00	36400.00	400.00	22400.00	550.00	30800.00	-42.28		

Sl.No	Description	Estimate Rate for the year 2021-2022			Rate quoted by Thiru. A. Venkatesan			Rate quoted by M/s. RK and Co			Rate quoted by M/s. VKS Infratec Projects			Ab-Sub Normal
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	
173	132.1) Drilling of 150mm dia borewell in alluvial soil including labour charges for inserting casing pipes and including cost of Rig, Fuel etc..	250.00	1 Rmt	275.00	68750.00	350.00	87500.00	300.00	75000.00	550.00	137500.00			9.09
174	133) Supplying of 150mm dia PVC Casing pipe shallow depth	25.00	1 Rmt	618.00	15450.00	800.00	20000.00	800.00	20000.00	550.00	13750.00			29.45
175	134) Supplying and fixing in position of G.I cover suitable for covering 150mm dia bore casing pipe	1.00	Each	132.00	132.00	300.00	300.00	200.00	200.00	250.00	250.00			51.52
176	140) Supplying of 3 to 10mm size HBS jelly etc..	45.00	1 Cum	855.63	38503.35	800.00	36000.00	400.00	18000.00	1700.00	76500.00			-53.25
177	142) Supplying and delivery of Rubber Moulded Hydraulic pressed Paver block 83mm thick	300.00	1 Sqm	547.00	164100.00	900.00	270000.00	650.00	195000.00	1000.00	300000.00			18.83
178	143) Labour charges for spreading and levelling of 3mm to 10mm size HBSJ and stone dust and compaction by the earth rammer and laying Paver block including Machinery charges	300.00	1 Sqm	172.00	51600.00	200.00	60000.00	100.00	30000.00	50.00	15000.00			-41.86
179	160 1) S supplying and fixing of Rotary Handle	1.00	Each	885.00	885.00	1500.00	1500.00	500.00	500.00	885.00	885.00			-43.50
180	163) Supplying and fixing of 63 Amps TPN switch Disconnecter fuse units in sheet steel enclosure with HRC fuses double break	1.00	Each	3590.00	3590.00	6000.00	6000.00	500.00	500.00	3750.00	3750.00			-86.07
181	344 2) S supplying and fixing of Bevelled Edge Mirror of size 500x400x5.5mm	3.00	Each	379.40	1138.20	500.00	1500.00	600.00	1800.00	379.00	1137.00			28.14
182	361.1) Supplying and laying of Concrete designer tiles flooring in C.M. 1:3 (one of cement and three of crushed stone sand) 20mm thick	21.80	1 Sqm	1355.06	29540.31	1100.00	23980.00	1000.00	21800.00	1200.00	26160.00			-26.20
183	367) Providing wooden melamen polish for main door new wood work	4.80	1 Sqm	1298.51	6232.85	1200.00	5760.00	1500.00	7200.00	1200.00	5760.00			15.52

Sl.No	Description	Estimate Rate for the year 2021-2022			Rate quoted by Thiru. A. Venkatesan		Rate quoted by M/s. RK and Co		Rate quoted by M/s. VKS Infratec Projects		Ab-Sub Normal
		Qty	Unit	Rate	Amount	Rate	Amount	Rate	Amount	Rate	
184	378.2) Supplying and fixing of Vitrified tiles (Ivory) in CM 1:3, 20mm tk using crushed stone sand	108.40	1 Sqm	1150.18	124679.51	1050.00	113820.00	1100.00	119240.00	1200.00	-4.36
185	448.2) Providing Tee with end cap 32mm dia instead of PVC Bottle trap	4.00	Each	122.25	489.00	200.00	800.00	100.00	400.00	105.00	-18.20
186	564) Supply and erection of 125 Amps capacity floor mounting / wall mounting panel board (Cubical type) with bus bar	1.00	Each	58902.00	58902.00	18000.00	18000.00	4000.00	4000.00	53000.00	-93.21
187	796) Two coat of Plastic emulsion paint including primer for outer wall surfaces	681.00	1 Sqm	206.91	140905.71	150.00	102150.00	150.00	102150.00	200.00	-27.50
	TOTAL AMOUNT				9452488.87		9061062.00		8394751.75		9779774.50
	GST @12% (SGST @ 6% + CGST @ 6%)				1134298.66		1087327.44		1007370.21		1173572.94
	GRAND TOTAL				10586787.53		10148389.44		9402121.96		10953347.44
	LESS AMOUNT						-438398.09		-1184665.57		366559.91
	LESS PERCENTAGE						-4.14		-11.19		3.46

Submitted:-

To be notice may be issued to the lowest tenderer M/s. R.K. & Co.,

*M/s. R.K. & Co.
J.E/c*

*20/12/2022
S.D.O.*

*20/12/22
S.D.O.*

*20/12/22
S.E/South circle*

