

RECAPITULATION SHEET

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.
BASED ON STATE SSR 2022-23

510 278.36

PARTICULARS	Capacity	Unit	AMOUNT IN RS.	Cost per MT	Cost per Sqm
1 SUB WORK I :- Civil work	510	M.T.	Rs. 4051562.00	7944.24	14555.16
2 SUBWORK II :- Electrification Work	510	M.T.	Rs. 89510.00	175.51	321.56
3 SUB WORK III :- Lab Testing.	510	M.T.	Rs. 35205.00	69.03	126.47
4 SUBWORK IV:- Royalty Charges	510	M.T.	Rs. 115669.00	226.80	415.54
		<u>Total</u>	Rs. 4291946.00	8415.58	15418.73
Add GST @ 18%	18%		Rs. 772550.28		
Add Labour Insurance @ 0.5%	0.50%		Rs. 21459.73		
		<u>Total</u>	5085956.01	9972.46	18271.20

Grand total Rs. 5085956.01

Prepared by

Deepak Pawar
(Deepak Pawar)
Checked by.
Associate Civil Expert
SMART PROJECT, PUNE

PIU AGRI
 Matoshri Babai Producer Company Limited
 At Wakad Tal. Kannad Dist. :- Aurangabd 431007

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WII BLDG.

BASED ON STATE SSR 2022-23

LEADS & RATES OF MATERIALS

S.N.	MATERIAL & LOCATION	UNIT	Lead in KM	Actual lead	LEAD DIFF.	Pay load Factor	NET	Rate /unit
1	2	3	4	5	6	7	8	9
1	SAND	CUM	5	263.19	263.19	1.00	263.19	263.19
2	CRUSHED METAL UPTO 40 MM	CUM	5	263.19	263.19	1.00	263.19	263.19
3	METAL ABOVE 40 MM	CUM	5	252.22	252.22	1.00	252.22	252.22
4	RUBBLE	CUM	5	321.99	321.99	1.00	321.99	321.99
5	BRICKS	1000 NOS	5	531.38	531.38	1.00	531.38	531.38
6	HARD MURUM	CUM	2	203.32	203.32	1.00	203.32	203.32
7	SOFT MURUM	CUM	2	203.32	203.32	1.00	203.32	203.32
8	ROYALTY CHARGES	CUM	1	237.37		1.00	0.00	0.00

Sectional Engineer
 P. B. N. N. N.

Jr. Engineer

Sectional Engineer
 P. B. N. N. N.

		QTY	RATE	AMOUNT
1	C.C. 1:3:6 for foundation & bedding	SAND METAL	263.19 263.19	123.70 247.40
2	P & C U.C.R masonry	SAND RUBBLE	263.19 321.99	92.12 373.51
3	P & C B.B. masonry in plinth & S.S	SAND BRICKS	263.19 531.38	84.22 252.41
4	P & L.R.C.C. (M-20) 1:1.5:3	SAND METAL	263.19 263.19	111.86 223.71
4-A	P & L.R.C.C. 1:2:4	SAND METAL	263.19 263.19	111.86 223.71
5	P & A 12 mm tk plaster	SAND	263.19	3.95
6	P & A 20 mm tk plaster	SAND	263.19	6.58
7	P & F polished shahabad for sills & dado	SAND	263.19	5.79
8	P & C half brick wall	sand bricks	263.19 531.38	8.95 63.77
9	P & a flush pointing in c.m. 1:3 for stone masonry	sand	263.19	0.79
10	M.S.Channel	KG		0.00
11	Wind ties 1.90 kg / mtr	RMT		0.00
12	M.S.angle sill 4.68 kg / mtr.	RMT		0.00
13	M.S.ladder 18.40 kg/ mtr.	RMT		0.00
14	V1 & V2 vents 43.33 kg/m2.	SOM.		0.00
15	P & L.R. C. C. M30	SAND METAL	0.00 0.00	0.00 0.00
The centre falls under sugarcane area / corporation /Trible				
Hence percentage required to be added will be percentage				
Municipal Council Area				
TOTAL				
Dein for SCADA				
		Building	Road	
		0.00%	0.00%	
		4.00%	10.80%	
		-25.00%	5.00%	

PIU AGRI

Matoshri Babat Producer Company Limited
Wakad Tal. Kannad Dist. :- Aurangabad 4311

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WII BLDG.

BASED ON STATE SSR 2022-23

SUB WORK :- Civil work

S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	S.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES				TOTAL OF ADD % for Area			TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	& RA	6 TO 11	12 TO 13	14		
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m.	3	4	5	6	-126.00	8	9	10	11	12	13	14	15	
1	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	27.06	cum	21.01/153	239.00						239.00	0.00	0.00	239.00	6467.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	24.16	CUM	21.05/153	365.00						365.00	0.00	0.00	365.00	8818.00
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including	33.96	CUM	24.01/175	5830.00	-126.00	111.86	223.71			6039.57	0.00	0.00	6039.57	205104.00
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like	11.83	cum	25.11/178	7104.00	-126.00	111.86	223.71			7313.57	0.00	0.00	7313.57	86520.00
5	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed	12.32	cum	25.31/179	13783.00	-126.00	111.86	223.71			13992.57	0.00	0.00	13992.57	172388.00
6	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per	26.63	cum	25.50/181	12269.00	-126.00	111.86	223.71			12478.57	0.00	0.00	12478.57	332304.00
7	Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks	0.45	CUM	26.05/184	13932.00	-126.00	111.86	223.71			14141.57	0.00	0.00	14141.57	6364.00
8	Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including	0.55	cum	26.09/184	13932.00	-126.00	0.00	111.86			13917.86	0.00	0.00	13917.86	7655.00
9	Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20	279.45	SQM	33.30/216	796.00	-126.00	111.86	223.71			1005.57	0.00	0.00	1005.57	281007.00

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap With BLDG.

BASED ON STATE SSR 2022-23

SUB WORK I :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Decln Scada	LEAD CHARGES				TOTAL OF RATE 6 TO 11	ADD % for Area	TOTAL OF RATE 12 TO 13	AMOUNT
							SAND METAL	Royalty	LIFTS & RA	10				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
						-126.00					89703.00	0.00	89703.00	414643.00
10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams	4.62	MT	26.33/188	89703.00						89703.00	0.00	89703.00	414643.00
11	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth	15.83	Cum	27.01/197	7755.00		252.41				8007.41	0.00	8007.41	126757.00
12	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking	65.18	Cum	27.05/197	7994.00		252.41				8246.41	0.00	8246.41	537501.00
13	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm,	167.67	CUM	21.37/157	599.00						599.00	0.00	599.00	100434.00
14	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/vert. ramming. watering etc. Complete	60.23	CUM	21.40/157	1454.00						1454.00	0.00	1454.00	87574.00
15	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions	393.87	sqm	32.04/209	278.00	3.95					281.95	0.00	281.95	111052.00
16	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in	559.29	sqm	32.11/209	639.00	3.95					642.95	0.00	642.95	359596.00
17	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the	393.87	SQM	36.11/227	48.00						48.00	0.00	48.00	18906.00
18	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including	559.29	SQM	35.16/224	97.00						97.00	0.00	97.00	54251.00

NAME OF WORK PROPOSED CONSTRUCTION OF 510 MT Cap WII BLDG.

SUB WORK 1: -Civil work

BASED ON STATE SSK 2022-23

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES					TOTAL OF ADD % for Area	TOTAL OF RATE	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	& RA	LIFTS					6 TO 11	12 TO 13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
19	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs	5.59	MT	23.04/173	119459.00	-126.00					119459.00	0.00	119459.00	667656.00	
20	Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is	302.16	SQM	38.34/236	1173.00						1173.00	0.00	1173.00	354434.00	
21	Providing and fixing of colour coated Zincaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The	6.00	SQM	38.35/237	751.00						751.00	0.00	751.00	4506.00	
22	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35	4.32	SQM	39.24/248	4829.00						4829.00	0.00	4829.00	20861.00	
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and	10.32	SQM	39.30/249	4827.00						4827.00	0.00	4827.00	49815.00	
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat strainers and steps	6.00	Rmts	41.56/271	1128.00						1128.00	0.00	1128.00	6768.00	
25	Providing and fixing wind oppareted tarbo S. S. ventiletar system (24 inch dia.) over exsiting roof	4.00	Nos	42/529	9702						0.00	0.00	0.00	0.00	
26	Providing pre-constructional Anti-termitte treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	279.45	Sq.m	21.24/156	108.00						108.00	0.00	108.00	30181.00	

TOTAL RS 4059562.00

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap with BLDG.

SUB WORK I :- Civil work

BASED ON STATE SSR 2022-23

LN.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES				TOTAL OF ADD % for Area		TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	& RA	6 TO 11	12 TO 13		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SUBWORK II :- Electrification Work														
1	Supplying & erecting mains with 2x1.5 sq.mm. and	36.00	Each	1-6-2/11	106						106.00	0.00	106.00	3816.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and	36.00	Rmt	1-6-4/11	129						129.00	0.00	129.00	4644.00
3	Supplying & erecting mains with 2x4 sq.mm. and	5.00	Rmt	1-6-6/11	137						137.00	0.00	137.00	685.00
4	Supplying and erecting Ceiling rose / Batten holder	4.00	Each	1-7-7/13	803						803.00	0.00	803.00	3212.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3	10.00	kg	6-1-9/114	1040.00						1040.00	0.00	1040.00	10400.00
6	Supplying and erecting triole pole and neutral	2.00	Each	5-4-1/98	4712.00						4712.00	0.00	4712.00	9424.00
7	Supplying, erecting & marking FPMCB 40A to	2.00	Each	5-3-17/97	1544.00						1544.00	0.00	1544.00	3088.00
8	Supplying, erecting & marking DPMCB 6 A to 32	2.00	Each	5-3-7/96	510						510.00	0.00	510.00	1020.00
9	Supplying & erecting conventional spike Providing	1.00	Each	9-1-3/161	6055						6055.00	0.00	6055.00	6055.00
10	Supplying, erecting & terminating XLPE armoured	25.00	Rmt	7-1-30/128	261						261.00	0.00	261.00	6525.00
11	Supplying and laying (including excavation of	25.00	Rmt	7-6-10/140	241						241.00	0.00	241.00	6025.00
12	Supplying & erecting Siemens type brass cable	2.00	Each	7-7-4/141	196						196.00	0.00	196.00	392.00
13	Supplying & erecting crimping type copper lugs for	3.00	Each	7-9-2/142	35						35.00	0.00	35.00	105.00
14	Supplying and erecting single pole and neutral	1.00	Each	5-4-14/99	15						15.00	0.00	15.00	15.00
15	Supplying and erecting LED Street light fitting	2.00	Each	2-5-4/35	1670						1670.00	0.00	1670.00	3340.00
16	Supplying and erecting Street light bracket made	2.00	Each	2-9-2/40	4825						4825.00	0.00	4825.00	9650.00
17	No 44.18 Additional Spec No:BDW 1 PAGE No 581	1.00	0	44.18	25784						25784.00	0.00	25784.00	25784.00
18	Providing and fixing copper strip 25mm wide and	2.00	Rmt	44.19/581	793						793.00	0.00	793.00	1586.00
													TOTAL RS	95766.00

Deepak Pawar
 (Deepak Pawar)
 Associate Civil Expert
 SMART PROJECT, PUNE

Jr. Engineer

Sectional Engineer

NAME OF WORK PROPOSED CONSTRUCTION OF 510 MT Cap WII BLDG.

SUB WORK I: -Civil work

BASED ON STATE SSR 2022-23

L.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	L.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF ADD % for Area	TOTAL OF RATE 6 TO 11	TOTAL OF RATE 12 TO 13	AMOUNT
							SAND	METAL	Royalty	& RA	LIFTS	RA	12				
1	2	3	4	5	6	-126.00	7	8	9	10	11	12	13	14	15		
19	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs	5.59	MT	23.04/173	119459.00							119459.00	0.00	119459.00		667656.00	
20	Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is	302.16	SQM	38.34/236	1173.00							1173.00	0.00	1173.00		354434.00	
21	Providing and fixing of colour coated Zincaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The	6.00	SQM	38.35/237	751.00							751.00	0.00	751.00		4506.00	
22	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35	4.32	SQM	39.24/248	4829.00							4829.00	0.00	4829.00		20861.00	
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and	10.32	SQM	39.30/249	4827.00							4827.00	0.00	4827.00		49815.00	
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps	6.00	Rmts	41.56/271	1128.00							1128.00	0.00	1128.00		6768.00	
25	Providing and fixing wind opparated tarbo S. S. ventilator systim (24 inch dia.) over exsiting roof	4.00	Nos	42/529	9702							0.00	0.00	0.00		0.00	
26	Providing pre-constructioal Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface	279.45	Sq.m	21.24/156	108.00							108.00	0.00	108.00		30181.00	

TOTAL RS 4051562.00

PIU AGRI

Matoshri Babai Producer Company Limited

At Wakad Tal. Kannad Dist. :- Aurangabd 431007

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.

SUBWORK IV:- Royalty Charges

Item.. No.	Description of item	Executed Quantity	Cement in bags	Quantity of Material for Royalty Cu. M				Rubble / Rd metal	Remark
				SAND	Crusher METAL	MURUM	7		
1	2	3	4	5	6	7	8	9	
3	Providing and laying Cast in situ/Ready Mix	33.96		0.425	14.433				
4	Providing and laying Cast in situ/Ready Mix cement	11.83		0.425	5.0278				
5	Providing and laying Cast in situ/Ready Mix cement	12.32		0.425	5.236				
6	Providing and laying Cast in situ/Ready Mix	26.63		0.425	11.318				
7	Providing and casting in situ cement concrete M-20	0.45		0.425	0.1913				
8	Providing & laying in situ cement concrete M-20 of	0.55		2.425	1.3338				
9	Providing and laying in situ cement concrete M-20	279.45		0.425	118.77				
11	Providing second class Burnt Brick masonry with	15.83		0.32	5.0656				
12	Providing second class Burnt Brick masonry with	65.18		0.32	20.858				
13	Filling in plinth and floors with contractors	167.67				1.2	201.20		
14	Providing soling using 80 mm size trap metal in 15	60.23					1.32	79.5	
15	Providing internal cement plaster 12mm thick in	393.87		0.015	5.9081				
16	Providing sand faced plaster externally in cement	559.29		0.033	18.457				
	Total		0.00		206.59	0.00	201.20	79.50	

PIU AGRI

Matoshri Babai Producer Company Limited
At Wakad Tal. Kannad Dist. :- Aurangabd 431007

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.

Royalty Charges Statements

Sr. No	Particular	Requar Quantity in Cum	3	4	Requar Quantity in Brass	Royalty Charges @ Rs 448 / Brass	5	Remarks
1	SAND	206.59	73.00	2.83	237.37	49038.27	448	
2	METAL Hand broken	0	0.00		237.37	47758.84	0.00	
3	MURUM	201.2	71.10		237.37	18870.92		
4	RUBBLE	79.5	28.09		237.37	115668.03		
		Total Amount Rs.						

Say Rs. 115669.00

Total Qty 487.29 cum

Jr. Engineer

Sectional Engineer
(Deepak Pawar)
Associate Civil Expert
SMART PROJECT, PUNE

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.

BASED ON STATE SSR 2022-23

MEASUREMENT SHEET

SUB WORK 1: -Civil work

Item No.	Description of Items	NO.S	LENGTH	BREATH	DEPTH / HEIGHT	TOTAL QUANTITY	Unit
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means....						cum
	Column footing						
	Column C1	1 X 6 X	1.65	X 1.45	X 0.40	= 5.74	
	Column No. C3	1 X 4 X	1.80	X 1.80	X 0.40	= 5.18	
	Column No.C2 END	1 X 4 X	1.65	X 1.45	X 0.40	= 3.83	
	Column No.Platform	1 X 2 X	1.30	X 1.30	X 0.40	= 1.35	
	For Ground Beam PANEL						
	C1-C1 middle	2 X 2 X	3.04	X 0.65	X 0.40	= 3.16	
	C1-C3 END WALL	2 X 2 X	2.3	X 0.65	X 0.40	= 2.41	
	C3-C2	2 X 2 X	3.53	X 0.65	X 0.40	= 3.67	
	C2-C2 M	2 X 1 X	3.3	X 0.65	X 0.40	= 1.72	
					Total	= 27.06	
					say	= 27.06	
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Mean...						cum
	Column footing						
	Column C1	1 X 6 X	1.65	X 1.45	X 0.60	= 8.61	
	Column No. C3	1 X 4 X	1.8	X 1.8	X 0.60	= 7.78	
	Column No.C2 END	1 X 4 X	1.65	X 1.45	X 0.60	= 5.74	
	Column No.Platform	1 X 2 X	1.30	X 1.30	X 0.60	= 2.03	
					Total	= 24.16	
					say	= 24.16	
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)...						CUM

Bed concrete in WH.	1	X	1	X	18.63	X	15.00	X	0.10	=	27.95
Column footing											
Column C1	1	X	6	X	1.65	X	1.45	X	0.10	=	1.44
Column No. C3	1	X	4	X	1.8	X	1.8	X	0.10	=	1.30
Column No.C2 END	1	X	4	X	1.65	X	1.45	X	0.10	=	0.96
Column No.Platform	1	X	2	X	1.30	X	1.30	X	0.10	=	0.34
For Ground Beam PANEL											
C1-C1 middle	2	X	2	X	4.36	X	0.65	X	0.05	=	0.57
C1-C3 END WALL	2	X	2	X	3.82	X	0.65	X	0.05	=	0.50
C3-C2	2	X	2	X	4.85	X	0.65	X	0.05	=	0.63
C2-C2 M	2	X	1	X	4.09	X	0.65	X	0.05	=	0.27
									Total	=	33.96
									say	=	33.96

-- 5 --

- 4 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) CUM

Column footing	1	X	6	X	1.35	X	1.15	X	0.45	=	4.19
Column C1	1	X	4	X	1.50	X	1.50	X	0.45	=	4.05
Column No. C3	1	X	4	X	1.35	X	1.15	X	0.45	=	2.79
Column No.C2 END	1	X	2	X	1.00	X	1.00	X	0.40	=	0.80
Column No.Platform CP									Total		11.83
									say		11.83

- 5 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks compacting and roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) C.um

Column up to plinth											
Column C1	1	X	6	X	0.30	X	0.45	X	1.58	=	1.28
Column No.C2	2	X	2	X	0.30	X	0.45	X	1.58	=	0.85
Column No. C3	2	X	2	X	0.34	X	0.34	X	1.58	=	0.73
Column No.Platform	1	X	2	X	0.57	X	0.30	X	1.58	=	0.54
Column above plinth											
Column C1	1	X	6	X	0.30	X	0.45	X	4.85	=	3.93
Column No.C2	2	X	2	X	0.30	X	0.45	X	4.85	=	2.62
Column No. C3	2	X	2	X	0.34	X	0.34	X	4.85	=	2.24
Column near R.S.	1	X	1	X	0.15	X	0.34	X	2.50	=	0.13
									Total		12.32
									say		12.32

- 6 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc).... C.um

Ground Beam Plinth Beams

Ground Beam

C1-C1 middle	2	X	2	X	4.36	X	0.34	X	0.45	=	2.67
C1-C3 END WALL	2	X	2	X	3.82	X	0.34	X	0.45	=	2.34
C3-C2	2	X	2	X	4.85	X	0.34	X	0.45	=	2.97
C2-C2 M	2	X	1	X	4.09	X	0.34	X	0.45	=	1.25

Plinth Beam

C1-C1 middle	2	X	2	X	4.36	X	0.34	X	0.45	=	2.67
C1-C3 END WALL	2	X	2	X	3.82	X	0.34	X	0.45	=	2.34
C3-C2	2	X	2	X	4.85	X	0.34	X	0.45	=	2.97
C2-C2 M	2	X	1	X	4.09	X	0.34	X	0.45	=	1.25

Platform beam

PB1	1	X	1	X	4.09	X	0.23	X	0.45	=	0.42
PB2	1	X	1	X	4.09	X	0.23	X	0.45	=	0.42
PB3	2	X	1	X	1.045	X	0.23	X	0.30	=	0.14
OFFSET	1	X	1	X	4.090	X	0.205	X	0.15	=	0.13
OFFSET	2	X	1	X	1.595	X	0.205	X	0.15	=	0.10

LINTELS

OVER V1	1	X	7	X	1.950	X	0.34	X	0.30	=	1.39
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DOOR BEAM

C1-C1 middle	1	X	1	X	4.36	X	0.23	X	0.30	=	0.30
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EAVES BEAM

C1-C1 middle	2	X	2	X	4.36	X	0.23	X	0.30	=	1.20
C1-C3 END WALL	2	X	2	X	3.82	X	0.23	X	0.30	=	1.05
C3-C2	2	X	2	X	4.85	X	0.23	X	0.30	=	1.34
C2-C2 M	2	X	1	X	4.09	X	0.23	X	0.30	=	0.56

AT GABLE

C2-C2 @ 1.50 MTR	1	X	2	X	4.04	X	0.23	X	0.30	=	0.56
C2-C2 @ 3.00 MTR	1	X	2	X	4.04	X	0.23	X	0.30	=	0.56

Total
say 26.63

-- 7 --

- 7 Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhaja as per CUM detailed designs and drawings including centering, formwork, cover blocks compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).With fully automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With natural sand.

Ventilators - V1 Long side	1	X	7	X	1.55	X	0.520	X	0.08	=	0.45
									Total		0.45
									Say		0.45

- 8 Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface with

PLATFORM SLAB	1	X	1	X	4.36	X	1.295	X	0.10	=	0.56
deduct column offset	-2	X	1	X	0.30	X	0.15	X	0.10	=	-0.01
									Total		0.55
									say		0.55

- 9 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. SQM

1	X	1	X	18.63	X	15.00	X		=	279.45
									TOTAL NET QTY. =	279.45
									Say	279.45

- 10 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, pargis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete M.T

FOOTING	1	X	1	X	11.83	X	70.00	....	=	828.10
COLUMN	1	X	1	X	12.32	X	90.00	....	=	1108.80
BEAM	1	X	1	X	26.63	X	100.00	....	=	2663.00
CHHAJJA	1	X	1	X	0.45	X	50.00	....	=	22.50
									TOTAL NET QTY. =	4622.40
									TOTAL NET QTY. =	4.62
									Say	4.62

- 11 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. Cum

For Plinth Work

For PANEL

C1-C1 middle	2	X	2	X	4.36	X	0.35	X	0.75	=	4.58
C1-C3 END WALL	2	X	2	X	3.82	X	0.35	X	0.75	=	4.01
C3-C2	2	X	2	X	4.85	X	0.35	X	0.75	=	5.09
C2-C2 M	2	X	1	X	4.09	X	0.35	X	0.75	=	2.15
									Total	=	15.83
									say	=	15.83

- 12 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete. Cum

For Super Structure

For PANEL

C1-C1 middle	2	X	2	X	4.36	X	0.23	X	4.40	=	17.65
C1-C3 END WALL	2	X	2	X	3.82	X	0.23	X	4.40	=	15.46
C3-C2	2	X	2	X	4.36	X	0.23	X	4.40	=	17.65
C2-C2 M	2	X	1	X	3.82	X	0.23	X	4.40	=	7.73
Gable	0.5	X	2	X	15.70	X	0.23	X	2.75	=	9.93
									Total	=	68.42

Deduction for
Rolling shutters
V1
V2

1	X	1	X	1.80	X	0.23	X	2.10	=	0.87
1	X	7	X	0.60	X	0.23	X	0.60	=	0.58
1	X	13	X	1.00	X	0.23	X	0.60	=	1.79

Total deduction 3.24
net 65.18
say 65.18

13 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering and compaction etc. complete.... CUM

Flooring	1	X	1	x	18.63	X	15.00	x	0.60	=	167.67	CUM	
											TOTAL NET QTY. =	167.67	CUM
												167.67	CUM

14 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete CUM

Godown Shed	1	X	1	x	18.63	X	15.00	x	0.15	=	41.92	CUM	
Flooring	1	X	2	x	21.98	x	1.50	x	0.15	=	9.89	CUM	
Plinth along periphery	1	X	2	x	18.70	x	1.50	x	0.15	=	8.42	CUM	
											TOTAL NET QTY. =	60.23	CUM
											SAY =	60.23	CUM

15 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete... Sqm

Inside	1	X	2	X	18.63	X	5.35		=	199.34		
Long wall	1	X	2	X	15.00	X	5.35		=	160.50		
short wall	0.5	X	2	X	15.00	X	2.95		=	44.25		
Gable wall	0	X	2	X	11.70	X	0.30		=	0.00		
Above AC sheet Plinth Diff.											Total	404.09
Deduction	1	X	1	X	1.80	X	2.40		=	4.32		
rolling shutter	0.5	X	7	X	1.00	X	0.60		=	2.10		
v1	0.5	X	13	X	1.30	X	0.45		=	3.80		
v2											Dedu.	10.22
										Net	393.87	
										Sav	393.87	

16 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc. complete.... SqM

Outside								=	242.94
Long wall	2	X	1	X	18.98	X	6.40	=	200.96
short wall	1	X	2	X	15.70	X	6.40	=	31.40
Gable wall	0.5	X	2	X	15.70	X	2.00	=	28.42
Column offset C1	6	X	1	X	0.74	X	6.40	=	16.38
C3	4	X	1	X	0.64	X	6.40	=	13.82
lte C2	4	X	1	X	0.54	X	6.40	=	14.54
Weather sheds over								=	0.47
V1 top, bottom	2	X	7	X	1.55	X	0.67	=	19.16
Sides	2	X	7	X	0.450	X	0.08	=	0.88
V 2 top, bottom	2	X	13	X	1.10	X	0.67	=	
Sides	2	X	13	X	0.450	X	0.08	=	
								Total	568.97
Deduction								=	3.78
rolling shutter	1	X	1	X	1.80	X	2.10	=	2.10
v1	0.5	X	7	X	1.00	X	0.60	=	3.80
v2	0.5	X	13	X	1.30	X	0.45	=	9.68
								Dedu.	9.68
								Net	559.29
								Say	559.29

17 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats SqM including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....

1	X	1.00	X	393.87	X	....	X	....	=	393.87
								TOTAL NET QTY. =		393.87 SQM
										393.87 SQM

18 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old SQM plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

1	X	1.00	X	559.29	X	....	X	....	=	559.29
								TOTAL NET QTY. =		559.29 SQM
										559.29 SQM

EXTERNAL PORTIONS PAINTINGS

19 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete

1	X	1.00	X	18.63	X	15.00	X		=	279.45
								M.F. =		20.00 kg/sqm
										5589.00 KG
										5.59 M.T
								TOTAL NET QTY. =		5.59 MT

20	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 Mpa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) vâth COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. Fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. Complete. (weight of profile 4.52 kg sqm)..(As directed by Engineer in charge.)	SQM
Roofing Area	1 X 2 x 18.98 x 7.96 X =	302.16
	TOTAL NET QTY. =	302.16 SQM
		302.16 SQM
21	Providing and fixing of colour coated Zinaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 Mpa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. Fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. Complete. (weight of profile 4.52 kg/sqm) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.)	SQM
Ridge at roofing lvl	1 X 1.00 X 18.98 X 0.3 =	5.69
	TOTAL NET QTY. =	5.69 SQM
	SAY =	6.00 SQM
22	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angie section fitted with Sliding bolts and handles for both sides, deep M. S. channel section of respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (Without mechanical gear)...	Sqm
Rulling Shutter	1 X 1.00 X 1.80 X 2.4 X =	4.32
	TOTAL NET QTY. =	4.32 SQM
		4.32 SQM
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.	sqm
V1	1 X 7 X 0.60 X 0.60 =	2.52
V2	1 X 13 X 1.00 X 0.60 =	7.80
	Total	10.32
	Say	10.32
24	Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete.(Anti Corossive Paint)	Rmts
	1 x 6.00 =	6.00
		6.00
		6.00 Rmts
25	Providing and fixing wind opparated tarbo S S. ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)	Nos
For WH Bldg	2 x 2 x 1 x 1.00 =	4.00
	Total =	4.00
	say =	4.00 Nos

SUBWORK II :- Electrification Work

LN.	DESCRIPTION OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	36.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	36.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	5.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. CSR 2019-20 Item No 1-7-7	4.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	10.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR 2019-20 Item No 5-4-1 Additional specification no. SW-	2.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/ MCB	2.00	Each
8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL
- 25.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10
- 25.00 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL
- 2.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU
- 3.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB
- 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .CSR 2019-20 Item No 2-5-4 Additional specification No . FGODF/ FLS2.
- 2.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC
- 2.00 Each
- 17 Providing and fixing lioghtening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm diaof requiired length with M.S. round bnase plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 dfoundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with altemate layers of charcoal and salt and G.I.pipe 40mm dia 2 meter length burried in earthe upto earthing plate remining portion above ground level for watering and refilling comepete Note- Copper strip from lightning conductor is not considered in this item. CSR 2018-19 Item No 44.18 Additional Spec No:BDW 1 PAGE No 581
- 1.00 No.
- 18 Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc.complete Note- Lightning conductor and earthing pits is not considered in this item.CSR 2019-20 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge
- 2.00 Rmt

Deepak Pawar
 (Deepak Pawar)
 Associate Civil Expert
 SMART PROJECT, PUNE

PIU AGRI						
Matoshri Babai Producer Company Limited						
At Wakad Tal. Kannad Dist. :- Aurangabd 431007						
NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.						
Elect.C.S.R.2022-23 & M.R.						
SUBWORK II :- Electrical Work.						
I.N.	DESCRIPTON OF ITEM	Qty	UNIT	I.N./ P.N	Total Rate/Unit	Total Amount
1	2	3	4	5	9	10
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	36.00	each	1-6-2/8	106	3816.00
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	36.00	each	1-6-4/8	129	4644.00
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia,CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	5.00	each	1-6-6/8	137	685.00
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.CSR2019-20 Item No 1-7-7	4.00	Point	1-7-6/12	803	3212.00
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	10.00	sqm	6-1-9/106	1040	10400.00
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1Additional specification no. SW-SWR/MCBDB	2.00	Each	5-4-1/91	2356	4712.00
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each	5-3-17/91	772	1544.00

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8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each	5-3-7/90	510	1020
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results. CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each	9-1-3/160	6055	6055.00
10	Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL	25.00	Rmt	7-1-30/128	261	6525.00
11	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10	25.00	Rmt	7-6-10/140	241	6025.00
12	Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL	2.00	Each	7-7-4/141	196	392.00
13	Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU	3.00	Each	7-9-2/142	35	105.00
14	Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB	1.00	Each	5-4-14/92	15	15.00
15	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2.	2.00	Each	2-5-4/31	1670	3340.00
16	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC	2.00	Each	2-9-1/34	4825	9650.00
17	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 foundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I.pipe 40mm dia 2 meter length burried in earthe upto earthing plate remaining portion above ground level for watering and refilling complete Note- Copper strip from lightning conductor is not considered in this item. CSR 2020-21 Item No 44.18 Additional Spec No:BDW 1 pAGE No 581	1.00	nos	S.S.R.2022-23-44.18/295	25784	25784.00

18	Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item. CSR 2020-21 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge	2.00	Rmt	S.S.R.2022 23- 44.19/295	793	1586.00
						89510.00

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PIU AGRI
Matoshri Babai Producer Company Limited
At Wakad Tal. Kannad Dist. :- Aurangabd 431007

NAME OF WORK :- PROPOSED CONSTRUCTION OF 510 MT Cap WH BLDG.
SUB WORK III :- Lab Testing.

BASED ON STATE SSR 2022-23

Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of Tests	Rate per Test	Amount	Remarks
1	Cement	442.86	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	85.58	cum	i) Concrete cube compressive strength (Set of 3 Cubes)	6	690.00	4140.00	1 test for 15 cum
3	Concrete M-20 grade	44.01	cum	i) Mix Design with all tests on basic materials	1	13755.00	13755.00	One per 500 cum of concrete
				ii) Concrete cube compressive strength (Set of 3 Cubes)	4	690.00	2760.00	1 test for 15 cum
5	Crushed metal for concrete	75.94	cum	i) Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	38479.75	cum	Crushing value, Water absorption, & Specific Gravity	1	2175.00	2175.00	one test per 50000 Nos. of bricks or part.
8	TMT steel bars	4.62	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	85.15	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	167.67	cum	i) Plasticity Index ii) Field Density of compacted layer	1	1170.00	1170.00	1 test per 1000 Cum.
					1	1860.00	1860.00	1 test per 250 Sq.m
				TOTAL			35205.00	

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