

**ESTIMATE**

**SUGAR GRID AGRO PRODUCER COMPANY LTD.**

GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE  
ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**Estimated Cost Rs. : 21250000.00**

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R E C A P U L A T I O N S H E E T**

Based on PWD SSR 2021-22

PARTICULARS	UNIT		AMOUNT RS	COST PER MT	COST PER UNIT
S.W. I - W.H.Building 1/2000 M T	1111.51	Sqm	14420497	8011	12974
Total Cost of Godown			14420497	8011	12974
S.W. II - Internal Bituminous Roads	1043.05	Sqm	2229446		2137
S.W.III - Electrification	1800	MT	101346		56
S.W.IV- Royalty Charges			630265		
S.W.:- V - Lab testing charges			108230		
Tender Cost Rs.			17489784	9717	15735
Add 3% contingencies		3%	524694		
Add GST 18%		18%	3148161		
Add 0.50% labour Insurance		0.50%	87449		
<b>Grand Total Rs.</b>			<b>21250087</b>	<b>11806</b>	<b>19118</b>
<b>Say Total Rs.</b>			<b>21250000</b>		

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NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS													
I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	All LEAD & ROYALTY	FOR SCADA -120	TOTAL	ADD 0% C AREA CHARGES	TOTAL OF RATE 6 TO 11	ADD 0% FOR CHARGES	TOTAL OF RATE 6 TO 14	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>S.W. I - W.H.BUILDING/2000 MT</b>													
<b>Part - A :- Civil work</b>													
1	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	1112.00	Sqm	2.07/23	4.00	0.00	0	4.00	0	4.00	0	4.00	4448
2	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	467.00	cu m	21.02/115	193.00	0.00	0	193	0	193.00	0.00	193.00	90131
3	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a 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 from 1.5m to 3.0m)	1.00	cu m	21.04/115	241.00	0.00	0	241	0	241.00	0.00	241.00	241
4	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 Means	93.00	cu m	21.06/115	212.00	0.00	0	212	0	212.00	0.00	212.00	19716
5	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 1.50 to 3.00 m) By Mechanical Means	43.00	cu m	21.08/115	265.00	0.00	0	265	0	265.00	0.00	265.00	11395

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
6	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 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 1.5m.) By Mechanical Means	1.00	cu m	21.10/115	235.00	0.00	0	235	0	235.00	0.00	235.00	235
7	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 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. omplete. (Lift 1.50 to 3.00 m) By Mechanical Means	22.00	cu m	21.10/116	291.00	0.00	0	291	0	291.00	0.00	291.00	6402
8	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming,watering including shoring and strutting etc. complete. (Lift up to 1.5m ) By Mechanical Means	1.00	cu m	21.14/116	402.00	0.00	0	402	0	402.00	0.00	402.00	402
9	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming,watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.00 m.) By Mechanical Means	1.00	cu m	21.16/116	490.00	0.00	0	490	0	490.00	0.00	490.00	490
10	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means	1.00	cu m	21.16/116	1223.00	0.00	0	1223	0	1223.00	0.00	1223.00	1223

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
11	Excavation for foundation in Hard rock up to required depth by pocklain machine with needle breaker including removing the excavated stuff up to a distance of 50 m beyond the building area all lifts stacking , spreading directed.	1.00	cu m	MR	900	0.00	0	900	0	900.00	0.00	900.00	900
12	Excavation in plinth in earth soil of all types of sand or gravel or soft murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakment or stacking as directed	101.00	cu m	2.11/23	104.00	0.00	0	104	0	104.00	0.00	104.00	10504
13	Excavation in plinth in Hard murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakment or stacking etc. Complete	1.00	cu m	2.11/23	121	0.00	0	121	0	121.00	0.00	121.00	121
14	Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32 mm diameter up to 0.75 mtrs depth,placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete.	10.00	Nos	12.13/65	1460	0.00	0	1460	0	1460.00	0.00	1460.00	14600
15	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate ( VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of subgrade surface if required etc. complete.(Crushed sand VSI Grade)	101.00	Cum	5.13/45	3410	0.00	0	3410	0	3410.00	0.00	3410.00	344410
16	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ 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 fine aggregate (Crushed sand VSI Grade)	53.00	Cum	24.01/130	5538	0.00	-120	5418	0	5418.00	0.00	5418.00	287154

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
17	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually ,striking joints on un exposed faces and watering etc.complete.(Crushed sand VSI Grade)	24.00	Cum	28.01/146	4757	0.00	0	4757	0	4757.00	0.00	4757.00	114168
18	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.(Crushed sand VSI Grade)	66.00	Cum	28.01/146	7343	0.00	0	7343	0	7343.00	0.00	7343.00	484638
19	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 pardis, 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.	23.02	MT	26.33/139	71778	0.00	0	71778	0	71778.00	0.00	71778.00	1652143
20	Providing and laying in situ /Ready Mix cement concrete M-25of 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, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete. With fine aggregate (Crushed sand VSI Grade)	103.00	Cum	25.13/133	6836	0.00	-120	6716	0	6716.00	0.00	6716.00	691748
21	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, 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). (Crushed sand VSI Grade)	56.00	Cum	25.33/134	13157	0.00	-120	13037	0	13037.00	0.00	13037.00	730072

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
22	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 fine aggregate (Crushed sand VSI Grade)	35.00	Cum	25.52/135	11652	0.00	-120	11532	0	11532.00	0.00	11532.00	403620
23	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)	1.00	Cum	26.07/137	13283	0.00	-120	13163	0	13163.00	0.00	13163.00	13163
24	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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 fine aggregate (Crushed sand VSI Grade)	15.00	Cum	26.07/136	14114	0.00	-120	13994	0	13994.00	0.00	13994.00	209910
25	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(Crushed sand VSI Grade)	53.00	Cum	26.07/136	7570	0.00	-120	7450	0	7450.00	0.00	7450.00	394850

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
26	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	Cum	24.08/131	6030	0.00	-120	5910	0	5910.00	0.00	5910.00	5910
27	Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	360.00	Sqm	32.07/153	366	0.00	0	366	0	366.00	0.00	366.00	131760
28	Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	355.00	Sqm	2.07/32.15/27	427	0.00	0	427	0	427.00	0.00	427.00	151585
29	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With CEMENT smooth finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed (Natural Sand)	520.00	Sqm	2.07/32.15/27	434	0.00	0	434	0	434.00	0.00	434.00	225680
30	Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including scaffolding & preparing the surface by brushing & brooming down complete.	355.00	Sqm	6.02/36.03/16	18	0.00	0	18	0	18.00	0.00	18.00	6390
31	Providing and applying two coats of exterior acryallic emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.	533.00	Sqm	35.25/165	240	0.00	0	240	0	240.00	0.00	240.00	127920
32	Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry,curing,moulding edges, polishing and cleaning etc. complete.	2.00	Sqm	33.19/157	1215	0.00	0	1215	0	1215.00	0.00	1215.00	2430

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
33	Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines including preparing the surfaces & primer coat etc. complete.	24.00	Sqm	5.12/164 35.2	130	0.00	0	130	0	130.00	0.00	130.00	3120
34	Providing & applying oilpainting name of Company with three coat with background of approved colour & shade including scaffolding etc complete.	1.00	Sqm	MR	1000	0.00	0	1000	0	1000.00	0.00	1000.00	1000
35	Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by Engineer in charge with all necessary alluminium sections with powder coating including necessary fixtures and fastening with 5 mm thick float glass etc. complete. ( Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered for only alummium ventilators ) and with G.I. wiremesh of 18 Gauge, 6 mm square mesh fixed to outside the frame of ventilator and grill of 12 mm sq. bars in vertical directions at 10 cms c/c fixed to outside surface of the frame and approved quality and type fixtures, fittings including red oxide & oilpainting three coats.As per detailed drawing and as directed.	28.00	Sqm	R.A	8032.05	0.00	0	8032.05	0	8032.05	0.00	8032.05	224897.4
36	Providing & fixing grilled steel rolling shutter fabricated from M.S. rod of 8 mm dia. grill with side guides prepared out of 3.00 mm thck M.S. Plate & Provided with holdfast 25 x 6 mm @ 1.00 m C/C throuhout the height on both sides , bottom rails & Strips 3.00 mm thck M.S. Plate with M.S. Angle 35x35x6 mm, bracket rail & strip with 10.00 mm sq. bar suspension shaft 32.00 mm dia best quality , rolling springs High tensile tested steel ( coiled spring) 45 cm length 2 nos., M.S. laths of 7.6 cm wide prepared out of best quality 22 guage locking arrangements with not less than 6 mm thick strip as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out of 6 mm thick flats, with one coat primer and applying two coats of oilpaint of approved colour & shade of deep orange shade etc. complete	4.00	Sqm	R.A	5875.77	0.00	0	5875.77	0	5875.77	0.00	5875.77	23503.08

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
37	Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 mm thickness reinforced with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fast arrangements, M.S.Bracket plate 300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm 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 and 3 Coat of oil painting including central lock, MS Locking patti 3mm thick etc.complete. (With mechanical gear)	22.00	Sqm	R.A	5257.92	0.00	0	5257.92	0	5257.92	0.00	5257.92	115674.2
38	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.	10.00	Cum	21.36/117	113	0.00	0	113	0	113.00	0.00	113.00	1130
39	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [ Only compacted thickness is payable.	955.00	Cum	RA	599	0.00	0	599	0	599.00	0.00	599.00	572045
40	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	1929.00	Sqm	2.31/24	19	0.00	0	19	0	19.00	0.00	19.00	36651
41	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader/ Paver on prepared	168.09	Cum	3.01/26	1864	0.00	0	1864	0	1864.00	0.00	1864.00	313316.8
42	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.	1080.91	Sqm	50.59/250	27	0.00	0	27	0	27.00	0.00	27.00	29184.48
43	Providing and laying in situ Tremix Cement Concrete M - 20, with Natural Sand, with Tremix treatment for 150 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep at every 4.00 m c/c both sides with necessary refilling with bitumen,etc. complete as directed by Engineer Incharge. With fine aggregate (Crushed sand VSI Grade finely washed etc	1003.14	Sqm	33.30/158	746	0.00	0	746	0	746.00	0.00	746.00	748339.4

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
44	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. ((Crushed sand VSI Grade)	29.00	Cum	11.30/63	9276	0.00	0	9276	0	9276.00	0.00	9276.00	269004
45	Providing & fixing M.S. angle 50 x 50 x 6 mm with holdfasts at doorsills including fixing in bed concrete and then applying three coats of oilpaint etc. complete.	10.00	RM	RA	432.69	0.00	0	432.69	0	432.69	0.00	432.69	4326.9
46	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	2297.00	Kgs	23.01/129	89.18	0.00	0	89.18	0	89.18	0.00	89.18	204846.5
47	Providing and fixing lightening 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 clam ped to G.I. pipe pole B grade 50 mm diaof required 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 compete.	1.00	Nos	RA	33873	0.00	0	33873	0	33873.00	0.00	33873.00	33873
48	Providing and fixing Marble plate engraving 10 cm.height letter, figures including painting the lefters/figures with approved colour and shade complete	0.54	Sqm	44.11/213	7356	0.00	0	7356	0	7356.00	0.00	7356.00	3972.24

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49	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.	10.00	Cum	2.25/24	177	0.00	0	177	0	177.00	0.00	177.00	1770
50	Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of excavation to the site of deposition as directed.	467.00	Cum	5km/lead	220.06	0.00	0	220.06	0	220.06	0.00	220.06	102768
51	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, cum ramming, watering etc. complete.	1.00	Cum	21.40/118	1322	0.00	0	1322	0	1322.00	0.00	1322.00	1322
52	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper	1004.00	Sqm	21.24/117	94	0.00	0	94	0	94.00	0.00	94.00	94376
53	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for CumR.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)	1.00	Cum	26.19/137	14863	0.00	-120	14743	0	14743.00	0.00	14743.00	14743

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	All LEAD & ROYALTY	FOR SCADA -120	TOTAL	ADD 0% C AREA CHARGES	TOTAL OF RATE 6 TO 11	ADD 0% FOR CHARGES	TOTAL OF RATE 6 TO 14	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
54	Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled Sqm sheets for flashing at parapet. 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 super durable polyester paint coat (SDP) or similar. The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. 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.	2.00	Sqm	38.34/173	1095	0.00	0	1095	0	1095.00	0.00	1095.00	2190
55	Providing and fixing in position G.I. wiremesh of 18 Gauge, 6 mm square mesh sandwiched between frame of 19 mm X 3 mm thick M.S. flat and welded from inside for higher level ventilators (V 2) including painting with initial coat of red oxide & oilpainting two coat etc complete as directed by Engineer in charge.	29.09	Sqm	RA	916	0.00	0	916	0	916.00	0.00	916.00	26644.61
<b>Total for WH Building</b>										<b>Total Amount Rs.</b>		<b>8967057</b>	
<b>Part B PEB Work</b>													
1	Above Plinth PEB Structure - providing & erecting PEB structure with zincallume sheets etc.complete.	1100.00	Sqm	MR	4880	0.00	0	4880	0	4880.00	0.00	4880.00	5368000
2	Turbo ventilator 24"	8.00	Nos	42/374	8680	1000	1000	10680	0	10680.00	0.00	10680.00	85440
					Supply	Fixing	polycarboanate						
<b>Total for PEB Work</b>										<b>Total Amount Rs.</b>		<b>5453440</b>	
<b>Total WH Building Part A + Part B</b>										<b>Total Amount Rs.</b>		<b>14420497</b>	

SUGAR GRID AGRO PRODUCER COMPANY LTD.													
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA													
NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS													
I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./P.N	BASIC RATE	All ROYALTY	FOR SCADA	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATE 6 TO 10	ADD 0% FOR CHARGE S	TOTAL OF RATE 6 TO 12	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>S.W. II - INTERNAL ROADS</b>													
<b>PART I :- ROAD WORKS</b>													
1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts.	639.50	cum	2.11/23	104.00	0.00	0	104	0	104.00	0	104.00	66508
2	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m.and spreading for embankment or stacking as directed.	625.90	cum	2.13/23	121.00	0.00	0	121	0	121.00	0	121.00	75733.9
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	240.00	cum	21.40/118	1322.00	0.00	0	1322	0	1322.00	0	1322.00	317280
4	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc. complete.	206.60	cum	50.56/250	700	0.00	0	700	0	700.00	0	700.00	144620
5	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete.	137.70	cum	50.55/250	780	0.00	0	780	0	780.00	0	780.00	107406
6	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete	206.60	cum	50.58/250	85.00	0.00	0	85	0	85.00	0	85.00	17561
7	Spreading 40 mm trape stone metal including sectioning as directed etc. complete.	137.70	cum	50.58/250	85.00	0.00	0	85	0	85.00	0	85.00	11704.5
8	Supplying hard murum/ kankar at the road site, including conveying and stacking complete	87.40	cum	2.29a/24	398.00	0.00	0	398	0	398.00	0	398.00	34785.2
9	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	87.40	cum	2.30/24	74.00	0.00	0	74	0	74.00	0	74.00	6467.6
10	Compacting oversize metal layer with H. M. with power roller including artificial watering & necy. Labour etc. complete.	3129.20	Sqm	50.59/250	27.00	0.00	0	27	0	27.00	0	27.00	84488.4
11	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete	112.70	Sqm	2.31/24	19.00	0.00	0	19	0	19.00	0	19.00	2141.3
12	Providingandconstructing75mm.thickModifiedPenetration Macadam(MPM)roadsurfaceincludingallmaterials.preparin gtheexistingroadsurface,spreading40mm.stonemetallayers1 00%crusherbrokenmetalwithconicalcrusherplantheatingand sprayingthebitumenofspecifiedgrade@2Kilogram/SquareM etre,spreading12mm.sizechipscompactngwiththreewheelsta ticrollerhavingweight8to10MT.toachivethedesireddegreeofc ompactionasperTechnicalSpecificationClause506etc.compl etc. (VG-30 bulk bitumen )	1043.10	Sqm	RA	223.14	0.00	0	223.14	0	223.14	0	223.14	232757.33

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	All ROYALTY	FOR SCADA	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATE 6 TO 10	ADD 0% FOR CHARGE S	TOTAL OF RATE 6 TO 12	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
13	Providingandapplyingtackcoatonthepreparedsurfaceheating byfamesinBoilerandsprayingbitumensetfootedinbitumenbolleronB.T.surface2.5kg/10sqm.(VG-30bulkbitumen rates are considered to arrive at rates)	1043.10	Sqm	RA	14.73	0.00	0	14.73	0	14.73	0	14.73	15364.863
14	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but excluding prime / tack and Seal coat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver and Vibratory roller ( Over MPM Surface) (VG-30 bulk Grade 60/70)	1043.10	Sqm	RA	118.82	0.00	0	118.82	0	118.82	0	118.82	123941.14
15	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm apropriate capacity crushed stone chiping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-30 bulk bitumen rates are considered to arrive at rates)	1043.10	Sqm	RA	84.32	0.00	0	84.32	0	84.32	0	84.32	87954.192
16	Providing&fixingR.C.C.1:2:4guardstonesaspertypedesignincludingspaintingnumbering fixing in std. Size C. C. 1:4:8 block complete.	75.00	Nos.	11.27/63	963	0.00	0	963	0	963.00	0	963.00	72225
<b>PART II :- CROSS DRAINAGE WORKS</b>													
17	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to adistance 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	23.00	cum	21.02/115	193.00	0.00	0	193	0	193.00	0	193.00	4439
18	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) ByMechanical Means	5.00	cum	21.06/115	212.00	0.00	0	212	0	212.00	0	212.00	1060

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./P.N	BASIC RATE	All ROYALTY	FOR SCADA	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATE 6 TO 10	ADD 0% FOR CHARGE S	TOTAL OF RATE 6 TO 12	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
19	Excavation for foundation in Hard murum including removing the excavated material upto a 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 from 1.5 to 3.0m.)By Mechanical Means	3.30	cum	21.07/115	403.00	0.00	0	403	0	403.00	0	403.00	1329.9
20	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means	1.00	cum	21.20/116	1223.00	0.00	0	1223	0	1223.00	0	1223.00	1223
21	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ 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 (Crushed sand VSI Grade)	3.30	cum	24.01/131	5538	-120.00	0	5418	0	5418.00	0	5418.00	17879.4
22	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.(Crushed sand VSI Grade)	8.40	cum	28.01/146	4757.00	0.00	0	4757	0	4757.00	0	4757.00	39958.8
23	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, pardis, 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.	1.40	MT	26.33/139	71778.00	0.00	0	71778	0	71778.00	0	71778.00	100489.2

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	All ROYALTY	FOR SCADA	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATE 6 TO 10	ADD 0% FOR CHARGE S	TOTAL OF RATE 6 TO 12	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
24	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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 fine aggregate (Crushed sand VSI Grade)	5.20	cum	25.50/135	11483.00	-120.00	0	11363	0	11363.00	0	11363.00	59087.6
25	Providing cement plaster 20mm thick in two coats in C.M. 1:4 with slurry finish to concrete or brick surface or U.C. surface in all positions including scaffolding & curing smooth cement slurry finish of 1.5mm thickness etc. complete as directed. (Crushed sand VSI Grade)	26.80	Sqm	32.07+32.01/153	557.00	0.00	0	557	0	557.00	0	557.00	14927.6
26	Providing flush grooved pointing with cement mortar 1:3 for brick work including scaffolding and curing etc. complete.	8.80	Sqm	32.17/153	172.00	0.00	0	172	0	172.00	0	172.00	1513.6
27	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	10.00	RMT	11.09/62	2678	0.00	0	2678	0	2678.00	0	2678.00	26780
28	Supplying & spreading Hard murrum for cushioning of RCC pipe including watering ramming & leveling etc complete.	13.50	cum	2.27/24	201.00	0.00	0	201	0	201.00	0	201.00	2713.5
29	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. (Crushed sand VSI Grade)	2.50	cum	11.30/63	9276.00	0.00	0	9276	0	9276.00	0	9276.00	23190
30	Providing earth work in embankment with approved materials obtained from departmental land upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller to achieve not less than 97 % of standard proctor density etc. complete. (Material obtained from departmental Land)	10.00	cum	2.27/24	201.00	0.00	0	201	0	201.00	0	201.00	2010

I.N.	DESCRIPTON OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	All ROYALTY	FOR SCADA	TOTAL	Add % Q.C. Charges 0.005	TOTAL OF RATE 6 TO 10	ADD 0% FOR CHARGE S	TOTAL OF RATE 6 TO 12	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
31	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete ( Material obtained from Other sources)	713.20	cum	2.28/24	546.00	0.00	0	546	0	546.00	0	546.00	389407.2
32	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m.to 300m. inclusive from the site of excavation to the site of deposition as directed.	10.00	cum	2.25/24	177.00	0.00	0	177	0	177.00	0	177.00	1770
33	Conveying the materials obtained from excavation including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of excavation to the site of deposition as directed.	639.50	cum	5km/lead	220.06	0.00	0	220.06	0	220.06	0	220.06	140728.37
<b>TOTAL FOR INTERNAL ROADS</b>										<b>Total Amount Rs.</b>		<b>2229445.6</b>	

SUGAR GRID AGRO PRODUCER COMPANY LTD.  
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA  
NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS  
**RATE ANALYSIS ROAD**

I.NO

12	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface includin			
	Consider 1.00 Sq m quantity			
	1 - Basic rate I NO 3.35b/ P NO 29	1.00	239.00	239.00
	a) bitumen 1.75 kg/ Sq M	1.75	6.82	11.94
	Heating	1.75	0.12	0.20
	b) Crushed metal	0.075	0.00	0.00
	3) Dedc. For picking the surface 2.32/25	1.000	28.00	-28.00
	Net Rs			223.14
	<b>Therefore rate per Sq m will be say Rs</b>			<b>223.14</b>
13	Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitu			
	Consider 1.00 Sq m quantity			
	1 - Basic rate I NO 3.30/ P NO 28	1.00	13.00	13.00
	2) As 2.50kg / 10 sqm	0.25		
	( from Mumbai refinery) 720 KM	0.25	6.82	1.71
	Heating	0.25	0.12	0.03
	Grand total Rs.			14.73
	<b>Therefore rate per Sq m will be say Rs</b>			<b>14.73</b>
14	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm			
	1 - Basic rate I No 4.12/ P No 33	1.00	142.00	142.00
	2) Add lead of butimen 156kg / 100 sqm	1.56		
	( from Mumbai refinery) 720 KM	1.56	6.82	10.64
	Heating	1.56	0.12	0.18
	b) Crushed metal	0.029	0.00	0.00
	2)Dedc. For Scada as 60 Rs/Cum	6.00 Per Sqm		-6.00
	3) Dedc. For picking the surface 2.32/25	1.000	28.00	-28.00
	Grand total Rs.			118.82
	<b>Therefore rate per Sq m will be say Rs</b>			<b>118.82</b>
15	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of aproprate cap			
	Consider 1.00 Sq m quantity			
	1 - Basic rate I NO 4.13/ P NO 33	1.00	76.00	76.00
	2) As 1.20kg / sqm	1.20		
	( from Mumbai refinery) 270 KM	1.20	6.82	8.19
	Heating	1.20	0.12	0.14
	3) Chipping 6.70 mm 0.009 Cum for 1 Sqm	0.009	0.00	0.00
	Grand total Rs.			84.32
	Grand total Rs.			84.32
	<b>Therefore rate per Sq m will be say Rs</b>			<b>84.32</b>

**SUGAR GRID AGRO PRODUCER COMPANY LTD.  
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA**

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**Part - A :- Civil work**

**MEASUREMENT SHEET**

Item Nos & Description of Items	NO.S		LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	Unit			
	1	2								
1	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .							Sqm		
	1	X	1	X	41.32	X	26.90	=	1111.51	
								<b>TOTAL</b>	= 1111.51	
								<b>SAY</b>	= <b>1112.00</b>	
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the xcavated material up to adistance 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							cum		
<b>Column footing</b>										
Column C1	2	X	8	X	2.80	X	2.30	X	1.30	= 133.95
Column No. C3	2	X	6	X	2.30	X	2.30	X	1.30	= 82.52
Column No.C2	2	X	6	X	2.10	X	1.80	X	1.30	= 58.97
Column No.Platform	2	X	6	X	1.30	X	1.30	X	1.30	= 26.36
<b>For Ground Beam PANEL</b>										
C1-C1 middle	2	X	3	X	3.97	X	0.95	X	0.60	= 13.58
C3-C1 end	2	X	2	X	3.97	X	0.95	X	0.60	= 9.05
C2-C3 END WALL	2	X	3	X	4.22	X	0.95	X	0.60	= 14.43
C2-C2 M	1	X	3	X	4.22	X	0.95	X	0.60	= 7.22
APRON long	1	X	3	X	29.39	X	1.28	X	0.60	= 67.71
APRON short	1	X	3	X	23.032	X	1.28	X	0.60	= 53.07
									<b>Total</b>	<b>466.87</b>
									<b>say</b>	<b>467.00</b>
3	Excavation for foundation in earth, soils of all types, sand,gravel and soft murum, including removing the excavated material upto adistance 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 from 1.5m to 3.0m)							cum		
<b>Column footing</b>										
Column C1	2	X	8	X	2.80	X	2.30	X	0.00	= 0.00
Column No. C3	2	X	6	X	2.30	X	2.30	X	0.00	= 0.00
Column No.C2 END	2	X	6	X	2.10	X	1.80	X	0.00	= 0.00
Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.00	= 0.00
<b>For Ground Beam PANEL</b>										
C1-C1 middle	2	X	3	X	3.61	X	0.65	X	0.00	= 0.00
C1-C1 middle end	2	X	2	X	2.52	X	0.65	X	0.00	= 0.00
C3-C2	2	X	3	X	2.52	X	0.65	X	0.00	= 0.00
C2-C2 E	1	X	3	X	4.22	X	0.65	X	0.00	= 0.00
Extra portion	2	X	2	X	2.25	X	0.65	X	0.00	= 0.00
APRON long	1	X	3	X	29.39	X	1.28	X	0.00	= 0.00
APRON short	1	X	3	X	23.03	X	1.28	X	0.00	= 0.00
									<b>Total</b>	<b>= 0.00</b>
									<b>say</b>	<b>= 1.00</b>
4	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 ecessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means							cum		
<b>Column footing</b>										
Column C1	2	X	8	X	2.80	X	2.30	X	0.40	= 41.22
Column No. C3	2	X	6	X	2.30	X	2.30	X	0.40	= 25.39
Column No.C2	2	X	6	X	2.10	X	1.80	X	0.40	= 18.14
Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.40	= 8.11
									<b>Total</b>	<b>= 92.86</b>

									say	=	<b>93.00</b>	
5	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 1.50 to 3.00 m) By Mechanical Means											cum
	<b>Column footing</b>											
	Column C1	2	X	8	X	2.80	X	2.30	X	0.20	=	20.61
	Column No. C3	2	X	6	X	2.30	X	2.30	X	0.20	=	12.70
	Column No.C2 END	2	X	6	X	2.10	X	1.80	X	0.20	=	9.07
	Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.00	=	0.00
	Provision									Total	=	42.38
									say	=	<b>43.00</b>	
6	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 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 1.5m.) By Mechanical Means											cum
	<b>Column footing</b>											
	Column C1	2	X	8	X	2.80	X	2.30	X	0.00	=	0.00
	Column No. C3	2	X	6	X	2.30	X	2.30	X	0.00	=	0.00
	Column No.C2 END	2	X	6	X	2.10	X	1.80	X	0.00	=	0.00
	Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.00	=	0.00
	Provision									Total	=	0.00
									say	=	<b>1.00</b>	
7	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 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 1.50 to 3.00 m) By Mechanical Means											cum
	<b>Column footing</b>											
	Column C1	2	X	8	X	2.80	X	2.30	X	0.10	=	10.30
	Column No. C3	2	X	6	X	2.30	X	2.30	X	0.10	=	6.35
	Column No.C2 END	2	X	6	X	2.10	X	1.80	X	0.10	=	4.54
	Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.00	=	0.00
										Total	=	21.19
									say	=	<b>22.00</b>	
8	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift up to 1.5m ) By Mechanical Means											cum
	Provision									Total	=	1.00
										Say	=	<b>1.00</b>
9	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.00 m.) By Mechanical Means											cum
	<b>Column footing</b>											
	Column C1	2	X	8	X	2.80	X	2.30	X	0.00	=	0.00
	Column No. C3	2	X	6	X	2.30	X	2.30	X	0.00	=	0.00
	Column No.C2 END	2	X	6	X	2.10	X	1.80	X	0.00	=	0.00
	Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.00	=	0.00
										Total	=	0.00
	Provision									say	=	<b>1.00</b>
10	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means											cum
		1	X	1	X	0.00	X	0.00	X	0.00	=	0.00
										Total	=	0.00
	Provision									Say	=	<b>1.00</b>
11	Excavation for foundation in Hard rock up to required depth by pocklain machine with needle breaker including removing the excavated stuff up to a distance of 50 m beyond the building area all lifts stacking , spreading directed.											cum

**Column footing**

Provision									SAY	=	<b>1.00</b>	
12	Excavation in plinth in earth soil of all types of sand or gravel or soft murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakmt or stacking as directed											cum
		1	X	1	X	39.25	X	25.56	X	0.10	=	100.31
										TOTAL	=	100.31
										SAY	=	<b>101.00</b>
13	Excavation in plinth in Hard murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakmt or stacking etc. Complete											cum
		1	X	1	X	39.25	X	25.56	X	0.00	=	0.00
										TOTAL	=	0.00
										SAY	=	<b>1.00</b>
14	Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32 mm diameter up to 0.75 mtrs depth,placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete.											Nos
	Provision	0.5	X	5	X	4.00	X	1.00	X	1.00	=	10.00
										TOTAL	=	10.00
15	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate ( VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of subgrade surface if required etc. complete.(Crushed sand VSI Grade)											Cum

**Bed concrete in WH.**

		1	X	1	X	39.25	X	25.56	X	0.10	=	100.31
										Total	=	100.31
										Say	=	<b>101.00</b>
16	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ 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 fine aggregate (Crushed sand VSI Grade)											cum

**Column footing**

Column C1		2	X	8	X	2.80	X	2.30	X	0.10	=	10.30
Column No. C3		2	X	6	X	2.30	X	2.30	X	0.10	=	6.35
Column No.C2 END		2	X	6	X	2.10	X	1.80	X	0.10	=	4.54
Column No.Platform		2	X	6	X	1.30	X	1.30	X	0.10	=	2.03
<b>For Ground Beam PANEL</b>												
C1-C1 middle		2	X	3	X	6.25	X	0.95	X	0.10	=	3.56
C3-C1 middle end		2	X	2	X	6.14	X	0.95	X	0.10	=	2.33
C3-C2		2	X	3	X	6.74	X	0.95	X	0.10	=	3.84
C2-C2 E		1	X	3	X	6.91	X	0.95	X	0.10	=	1.97
APRON long		1	X	2	X	41.26	X	1.28	X	0.10	=	10.56
APRON short		1	X	2	X	27.00	X	1.28	X	0.10	=	6.91
										Total	=	52.40
										Say	=	<b>53.00</b>
17	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually ,striking joints on un exposed faces and watering etc.complete.(Crushed sand VSI Grade)											cum
	APRON long	1	X	2	X	45.04	X	0.45	X	0.35	=	14.19
	APRON short	1	X	2	X	29.32	X	0.45	X	0.35	=	9.24
										Total	=	23.42
										say	=	<b>24.00</b>
18	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.(Crushed sand VSI Grade)											cum

**For PANEL**

C1-C1 middle		2	X	3	X	6.25	X	0.35	X	1.05	=	13.78
C3-C1 middle end		2	X	2	X	6.14	X	0.35	X	1.05	=	9.03
C3-C2		2	X	3	X	6.74	X	0.35	X	1.05	=	14.86
C2-C2		1	X	3	X	6.91	X	0.35	X	1.05	=	7.62
APRON long		1	X	2	X	41.26	X	0.23	X	0.65	=	12.34
APRON short		1	X	2	X	27.00	X	0.23	X	0.65	=	8.07
Deductions for												
Munim columns		2	X	5	X	0.23	X	0.230	X	1.20	=	-0.63
										Total	=	65.06
										say	=	<b>66.00</b>

- 19 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 pardis, 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. MT

Footing	78.718	X	80						6.30
Column , Beam & landing	152.00	X	110						16.72
								Total	23.02
								say	<b>23.02</b>

- 20 Providing and laying in situ /Ready Mix cement concrete M-25of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like cum raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete. With fine aggregate (**Crushed sand VSI Grade**)

**Column footing**

Column C1	2	X	8	X	2.50	X	2.00	X	0.60	=	48.00
Column No. C3	2	X	6	X	2.00	X	2.00	X	0.60	=	28.80
Column No.C2 END	2	X	6	X	1.80	X	1.50	X	0.60	=	19.44
Column No.Platform	2	X	6	X	1.00	X	1.00	X	0.50	=	6.00
									Total		102.24
									say		<b>103.00</b>

- 21 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per cum detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, 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). (**Crushed sand VSI Grade**)

**Column up to plinth**

									Av.		
Column C1	2	X	16	X	0.66	X	0.320	X	2.50	=	16.90
Column No.C2	2	X	6	X	0.55	X	0.660	X	2.50	=	10.89
Column No. C3	2	X	6	X	0.560	X	0.310	X	2.50	=	5.21
Munim columns	2	X	5	X	0.230	X	0.230	X	1.80	=	0.95
Column No.Platform	2	X	6	X	0.30	X	0.30	X	2.70	=	2.92

**Column above plinth**

Column C1	2	X	16	X	0.23	X	0.35	X	3.00	=	7.73
Column No.C2	2	X	6	X	0.23	X	0.35	X	3.00	=	2.90
Column No. C3	2	X	6	X	0.23	X	0.56	X	3.00	=	4.64
Munim columns	2	X	5	X	0.23	X	0.23	X	3.00	=	1.59
Dummy col at rollling shutter	2	X	6	X	0.23	X	0.23	X	3.00	=	1.90
									Total		55.62
									say		<b>56.00</b>

- 22 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels cum as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)

**Ground Beam**

C1-C1 middle	2	X	3	X	6.253	X	0.35	X	0.60	=	7.88
C1-C3 end wall	2	X	2	X	6.138	X	0.35	X	0.60	=	5.16
C3-C2	2	X	3	X	6.737	X	0.35	X	0.60	=	8.49
C2-C2	1	X	3	X	6.912	X	0.35	X	0.60	=	4.35

**Plinth Beam (Patli)**

C1-C1 middle	2	X	3	X	6.253	X	0.35	X	0.15	=	1.97
C1-C3 end wall	2	X	3	X	6.138	X	0.35	X	0.15	=	1.93
C3-C2	2	X	3	X	6.737	X	0.35	X	0.15	=	2.12
C2-C2	1	X	3	X	6.912	X	0.35	X	0.15	=	1.09
Extra portion	2	X	2	X	2.25	X	0.35	X	0.15	=	0.47

**lintel Above V1**

C1-C1 middle	2	X	4	X	1.75	X	0.23	X	0.15	=	0.48
C1-C3 end wall	2	X	4	X	1.75	X	0.23	X	0.15	=	0.48

Total 34.43  
say **35.00**

- 23 Providing and laying Cast in situ/Ready Mixcement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade) Cum

Ventilators - V1 Long side	2	x	5	x	2.05	x	0.450	x	0.075	=	0.69
									Total		<b>0.69</b>
									Say		<b>1.00</b>

24	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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 fine aggregate (Crushed sand VSI Grade)											
	PLATFORM SLAB	2	X	2	X	9.68	X	1.870	X	0.20	=	14.48
										Total		<b>14.48</b>
										say		<b>15.00</b>
25	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including cum striking joints, raking out joints, watering and scaffolding etc. Complete(Crushed sand VSI Grade)											
	Provision	2	X	10	X	0.60	X	0.35	X	0.10	=	0.42
												1.00
										net		1.00
	<b>For PANEL</b>											
	C1-C1 middle	2	X	3	X	6.253	X	0.23	X	2.55	=	22.00
	C3-C1 middle end	2	X	2	X	6.138	X	0.23	X	2.55	=	14.40
	C3-C2	2	X	3	X	6.737	X	0.23	0	2.55	=	23.71
	C2-C2	1	X	3	X	6.912	X	0.23	X	2.55	=	12.16
										Total		<b>72.27</b>
	<b>Deduction for</b>											
	Munim columns	2	X	5	X	0.23	X	0.23	X	2.55	=	1.35
	Rolling shutters	2	X	6	X	2.10	X	0.23	X	2.55	=	14.78
	V1	2	X	10	X	0.75	X	0.23	X	0.75	=	2.59
	V1, Lintel										=	
	C2 near R.S.										=	0.63
	Bed block below V1 ,etc	2	X	10	X	0.75	X	0.23	X	0.10	=	0.35
								Total deduction				19.69
										net		52.58
										say		<b>53.00</b>
26	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation cum blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed. complete. With fine aggregate (Crushed sand VSI Grade)											
	Below V1	2	X	10	X	0.75	X	0.23	X	0.10	=	0.35
	At fire bucket	2	X	2	X	0.20	X	0.20	X	0.35	=	0.06
	ladder bedblock	1	X	2	X	0.20	X	0.20	X	0.35	=	0.03
										Total		0.43
										say		<b>1.00</b>
27	Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete or sqm brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge											
	<b>Outside</b>											
	Long wall	1	X	2	X	41.32	X	3.00			=	247.92
	short wall	1	X	2	X	26.90	X	3.00			=	161.40
	R S Jams	2	X	1	X	10.00	X	0.23			=	4.60
	<b>Weather sheds over</b>											
	V1 top, bottom	2	x	5	x	2.05	x	0.45			=	9.23
	Sides	2	X	10	X	0.450	X	0.08			=	0.72
										Total		423.87
	<b>Deduction</b>											
	rolling shutter	2	X	6	X	2.10	X	2.55			=	64.26
										Dedu.		64.26
										Net		359.61
										Say		<b>360.00</b>
28	Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with smooth neeru finish to concrete or brick surface in all sqm positions including scaffolding curing etc. complete as directed by engineer in charge											
	<b>Inside</b>											
	Long wall	1	X	2	X	39.25	X	3.23			=	253.58
		1	X	2	X	25.56	X	3.23			=	165.09
										Total		418.67
	<b>Deduction</b>											
	rolling shutter	2	X	6	X	2.10	X	2.55			=	64.26
										Dedu.		64.26
										Net		354.41
										Say		<b>355.00</b>
29	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With CEMENT smooth finish to concrete or brick surface sqm in all positions including scaffolding curing etc. complete as directed (Natural Sand)											

Outside									
Apron L/W	1	X	2	X	45.04	X	0.60	=	54.05
S/W	1	X	2	X	29.32	X	0.60	=	35.19
Gutter L/W	1	X	2	X	41.26	X	1.95	=	160.91
S/W	1	X	2	X	27.00	X	1.95	=	105.30
Long wall plinth	1	X	2	X	41.320	X	1.20	=	99.17
short wall plinth	1	X	2	X	26.900	X	1.20	=	64.56
							Total		<b>519.17</b>
							Say		<b>520.00</b>
30	Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including scaffolding & preparing sqm the surface by brushing & brooming down complete.								
Long wall	1	X	2	X	39.254	X	3.23	=	253.58
Short Wall	1	X	2	X	25.555	X	3.23	=	165.09
Deduction							Total		418.67
rolling shutter	2	X	6	X	2.10	X	2.55	=	64.26
							Dedu.		64.26
							Net		354.41
							Say		<b>355.00</b>
31	Providing and applying two coats of exterior acrylic emulsion paint conforming to corresponding I.S. of approved manufacture and of sqm approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.								
Outside									
Long wall	1	X	2	X	41.32	X	4.25	=	351.22
short wall	1	X	2	X	26.90	X	4.25	=	228.65
R S Jams	2	X	1	X	10.00	X	0.35	=	7.00
Weather sheds over									
V1 top, bottom	2	x	5	x	2.05	x	0.45	=	9.23
Sides	2	X	10	X	0.45	X	0.075	=	0.68
							Total	=	596.77
rolling shutter	2	X	6	X	2.10	X	2.55	=	64.26
							Dedu.		64.26
							Net		532.51
							Say		<b>533.00</b>
32	Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with sqm slurry,curing,moulding edges, polishing and cleaning etc. complete.								
Inside Below V1	2	x	5	x	0.75	X	0.20	=	1.50
							Total		1.50
							Say		<b>2.00</b>
33	Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines including preparing sqm the surfaces & primer coat etc. complete.								
Plinth									
<b>stack lines</b>									
							Total		23.28
							Say		<b>24.00</b>
34	Providing & applying oilpainting name of Company with three coat with background of approved colour & shade including scaffolding etc complete. <span style="float: right;">sqm</span>								
Qty	0	X	1	X	20.00	X	1.00	=	0.00
							Total		0.00
							Say		<b>1.00</b>
35	Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by Engineer in charge sqm with all necessary alluminium sections with powder coating including necessary fixtures and fastening with 5 mm thick float glass etc. complete. ( Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered for only alummium ventilators ) and with G.I. wiremesh of 18 Gauge, 6 mm square mesh fixed to outside the frame of ventilator and grill of 12 mm sq. bars in vertical directions at 10 cms c/c fixed to outside surface of the frame and approved quality and type fixtures, fittings including red oxide & oilpainting three coats.As per detailed drawing and as directed.								
V1	1	x	28	x	0.60	X	0.60	=	28.00
							Total		28.00
							Say		<b>28.00</b>
36	Providing & fixing grided steel rolling shutter fabricated from M.S. rod of 8 mm dia. grill with side guides prepared out of 3.00 mm thck M.S. sqm Plate & Provided with holdfast 25 x 6 mm @ 1.00 m C/C throughout the height on both sides , bottom rails & Strips 3.00 mm thck M.S. Plate with M.S. Angle 35x35x6 mm, bracket rail & strip with 10.00 mm sq. bar suspension shaft 32.00 mm dia best quality , rolling springs High tensile tested steel ( coiled spring) 45 cm length 2 nos., M.S. laths of 7.6 cm wide prepared out of best quality 22 guage locking arrangements with not less than 6 mm thick strip as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out of 6 mm thick flats, with one coat primer and applying two coats of oilpaint of approved colour & shade of deep orange shade etc. complete								

Qty	2	x	2	x	2.10	x	2.55				4.00
										Total	4.00
										Say	<b>4.00</b>
37	Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 mm thickness reinforced sqm with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channe l section of depth and thick ness not less than 65mm and3.15mm respectively with hold fast arrangements, M.S.Bracket plate300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover of M.S.sheet notl ess 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 and 3 Coat of oil painting including central lock, MS Locking patti 3mm thick etc.complete. (With mechanical gear)										
Qty	2	x	2		2.10	x	2.55				21.42
										Total	21.42
										Say	<b>22.00</b>
38	<b>Filling in plinth</b> with approved <b>excavated stuff</b> obtained from departmental land including watering, compacting etc. complete as cum directed.										
	Qty received from excavation										
										Total	10.00
										Say	<b>10.00</b>
39	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [ Only compacted thickness cum is payable.										
	Main bldg.	1	X	1	X	39.25	X	25.56	X	0.75	= 752.35
	Back filling										125.48
	Apron										
	Long	1	X	2	X	42.39	X	0.37	X	0.45	= 14.12
	Short	1	X	2	X	27.60	X	0.37	X	0.45	= 9.19
	Below apron& gutter										
	Long	1	X	2	X	45.039	X	1.5	X	0.45	= 60.80
	Short	1	X	2	X	29.321	X	1.5	X	0.45	= 39.58
	Deduction for										
	O.S.metal in plinth										
	Long	1	X	2	X	39.25	X	0.60	X	0.60	= -28.26
	Short	1	X	2	X	25.56	X	0.60	X	0.60	= -18.40
										Total	954.86
										Say	<b>955.00</b>
40	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering sqm etc. complete.										
	Main bldg.	1	X	2	X	39.25	X	25.56			= 2006.27
	Deduction for O.S.metal in plinth										
	Long	1	X	2	X	39.25	X	0.60			= -47.10
		1	X	2	X	25.56	X	0.60			= -30.67
										Total	1928.50
										Say	<b>1929.00</b>
41	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed cum Material to work site, spreading in uniform layers with motor grader/ Paver on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per clause 401 -- Plant Mix Method and Grading - I Material.										
	Main bldg.	1	X	1	X	25.59	X	21.79	X	0.20	= 111.52
	Apron										
	Long	1	X	2	X	45.04	X	0.37	X	0.18	= 6.00
	Short	1	X	2	X	29.32	X	0.37	X	0.18	= 3.91
	O.S.metal in plinth along periphery.										
	Long	1	X	2	X	39.25	X	0.60	X	0.60	= 28.26
		1	X	2	X	25.56		0.60		0.60	= 18.40
										Total	168.09
										Say	<b>168.09</b>
42	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 sqm MT. including necessary, labour, materials and artificial watering complete.										
	Main bldg.	1	X	1	X	39.25	X	25.56			= 1003.14
	O.S.metal in plinth along periphery.										
	Long	1	X	2	X	39.25	X	0.60			= 47.10
	Short	1	X	2	X	25.56	X	0.60			= 30.67
										Total	1080.91
										Say	<b>1080.91</b>
43	Providing and laying in situ Tremix Cement Concrete M -20, with Natural Sand, with Tremix tratment for 150 mm thickness for flooring Sq.M with groove cutting of 4 mm wide and 20 mm deep at every 4.00 m c/c both sides with necessary refilling with bitumen,etc. complete as directed by Engineer Incharge.Withfineaggregate ( Crushed sand VSI Grade finely washed etc										

Provision	1	X	2	X	0.00	X	0.00		=	0.00
Main bldg.	1	X	1	X	39.25	X	25.56		=	1003.14
								Total		1003.14
								Say		<b>1003.14</b>
44	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. ((Crushed sand VSI Grade)									
Provision	2	X	2	X	2.00	X	0.45	X	0.10	= 3.60
								Total		3.60
Apron										
Long	2	X	2	X	41.26	X	0.60	X	0.10	= 9.90
Short	2	X	2	X	27.00	X	0.60	X	0.10	= 6.48
Coping over gutter										
Long	2	X	2	X	43.32	X	0.45	X	0.10	= 7.80
Short	2	X	2	X	26.46	X	0.45	X	0.10	= 4.76
								Total		28.94
								Say		<b>29.00</b>
45	Providing & fixing M.S. angle 50 x 50 x 6 mm with holdfasts at doorsills including fixing in bed concrete and then applying three coats of RMT oilpaint etc. complete.									
For Platforms	2	X	2	X	2.50					= 10.00
								Total		10.00
								Say		<b>10.00</b>
46	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. Kgs									
For Platforms	4	X	2	X	13.45	X	16.80	Kg/M.		= 1808.06
@ 16.80 kg/m										
Holdfasts 20 mm dia	4	X	18	X	0.60	X	2.50	Kg/M.		= 108.00
@ 2.50 kg/m										
L50x50x6 mm for fire bucket.										= 180.00
@ 4.50 kg/m										= 200.00
								Total		2296.06
								Say		<b>2297.00</b>
47	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm RMT dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clam ped to G.I. pipe pole B grade 50 mm diaof required 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 alternate 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 comcpete.									
	1	X	1	X						= 1
								Total		1.00
								Say		<b>1.00</b>
48	Providing and fixing Marble plate engraving 10 cm.height letter, figures including painting the lefters/figures with approved colour and sqm shade complete									
	1	X	1	X	0.90	X	0.60			= 0.54
								Total		0.54
								Say		<b>0.54</b>
49	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to Cum the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.									
I-1-A										0.00
I-1A'										0.00
I-1A"										0.00
								Total		<b>0.00</b>
								Say		<b>10.00</b>
50	Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of excavation to the site Cum of deposition as directed.									
AS PER ITEM No 2										<b>467.00</b>
								Total		467.00
								Say		<b>467.00</b>
51	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, cum ramming, cum watering etc. complete.									

Column footing

Column C1	2	X	2	X 0.65	X 0.35	X	0.0	=	0.00
Column No. C3	2	X	2	X 0.45	X 0.35	X	0.0	=	0.00
Column No.C2 END	2	X	2	X 0.65	X 0.52	X	0.0	=	0.00
Column No.Platform	4	X	2	X 0.45	X 0.23	X	0.0	=	0.00
APRON long	1	X	2	X 29.392	X 1.28	X	0.0	=	0.00
APRON short	1	X	2	X 23.032	X 1.28	X	0.0	=	0.00

Total 0.00

Provision

**Say 1.00**

- 52 Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of Sqm emulsion concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper

Provision 1 X 1 X 39.25 X 25.56 X = 1003.14

Total 1003.14

**Say 1004.00**

- 53 Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for Cum R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)

Provision for Plinth Padadi 1 X 1 X = 1.00

Total 1.00

**Say 1.00**

- 54 Providing and fixing colour coated Zincalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled Sqm sheets for Sqm flashing at parapet. 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 super durable polyester paint coat (SDP) or similar. The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. 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.

1 X 2 X 1 = 2.00

Total 2.00

**Say 2.00**

- 55 Providing and fixing in position G.I. wiremesh of 18 Gauge, 6 mm square mesh sandwiched between frame of 19 mm X 3 mm thick M.S. Sqm flat and welded from inside for higher level ventilators ( V 2 ) including painting with initial coat of red oxide & oilpainting two coat etc complete as directed by Engineer in charge.

V2 Long Side 1 X 21 X 1 X 0.6 = 12.40

V2 Short Side 2 X 14 X 1 X 0.6 = 16.69

Total 29.09

**Say 29.09**

**Part - B :- PEB work**

1	Above Plinth PEB Structure - providing & erecting PEB structure with zincalume sheets etc.complete.	1	X	1	X	41.18	X	26.70		=	1099.51
									Total		1099.51
									<b>Say</b>		<b>1100.00</b>
2	Turbo ventilator 24"									=	8.00
		2	X	4					Total		8.00
									<b>Say</b>		<b>8.00</b>

**SUGAR GRID AGRO PRODUCER COMPANY LTD.**  
**GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA**

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**Sub Work No:-III :-Bituminious Road**

**MEASUREMENT SHEET**

Item Nos & Description of Items	NO.S		LENGTH	BREDTH	DEPTH /	TOTAL	Unit
	1	X 2					
New Road							
Long Side	1	X 1	52.45	X	6.50	=	340.93 Sqm
Long Side	1	X 1	52.45	X	6.50	=	340.93 Sqm
Short Side	1	X 1	30.10	X	6.00	=	180.60 Sqm
Short Side	1	X 1	30.10	X	6.00	=	180.60 Sqm

- 1 Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts.

Road Formation

New Road

Long Side	1	X 1	52.45	X	6.50	X	0.60	=	204.56
Long Side	1	X 1	52.45	X	6.50	X	0.60	=	204.56
Short Side	1	X 1	30.10	X	6.00	X	0.60	=	108.36
Short Side	1	X 1	30.10	X	6.00	X	0.60	=	108.36
Approach Road	1	X 1	3.50	X	6.50	X	0.60	=	13.65
<b>TOTAL</b>									<b>= 639.48</b>
<b>SAY</b>									<b>= 639.50 Cum</b>

- 2 Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m.and spreading for embankment or stacking as directed.

New Road

Long Side	1	X 1	52.45	X	6.50	X	0.60	=	204.56
Long Side	1	X 1	52.45	X	6.50	X	0.60	=	204.56
Short Side	1	X 1	30.10	X	6.00	X	0.60	=	108.36
Short Side	1	X 1	30.10	X	6.00	X	0.60	=	108.36
<b>TOTAL</b>									<b>= 625.83</b>
<b>SAY</b>									<b>= 625.90 Cum</b>

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

New Road

Long Side	1	X 1	52.45	X	6.50	X	0.23	=	78.41
Long Side	1	X 1	52.45	X	6.50	X	0.23	=	78.41
Short Side	1	X 1	30.10	X	6.00	X	0.23	=	41.54
Short Side	1	X 1	30.10	X	6.00	X	0.23	=	41.54
<b>Total</b>									<b>= 239.90</b>
<b>SAY</b>									<b>= 240.00 Cum</b>

- 4 Supplying 80 mm trap stone metal at the road side including conveying & stacking etc. complete.

New Road

Long Side	1	X 1	52.45	X	6.50	X	0.15	=	51.14
Long Side	1	X 1	52.45	X	6.50	X	0.15	=	51.14
Short Side	1	X 1	30.10	X	6.00	X	0.15	=	27.09
Short Side	1	X 1	30.10	X	6.00	X	0.15	=	27.09
<b>Total</b>									<b>= 156.46</b>
<b>Add 32% Voids</b>									<b>= 50.07</b>
<b>Total</b>									<b>= 206.52</b>
<b>SAY</b>									<b>= 206.60 Cum</b>

- 5 Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete.

New Road

Long Side	1	X 1	52.45	X	6.50	X	0.10	=	34.09
Long Side	1	X 1	52.45	X	6.50	X	0.10	=	34.09
Short Side	1	X 1	30.10	X	6.00	X	0.10	=	18.06
Short Side	1	X 1	30.10	X	6.00	X	0.10	=	18.06
<b>Total</b>									<b>= 104.31</b>



New Road 1 X 1043 Total = 1043.05  
**SAY = 1043.10 Sqm**

- 15 9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm aproprate capacity crushed stone chipping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-30 bulk bitumen rates are considered to arrive at rates)

New Road 1 X 1043 Total = 1043.05  
**SAY = 1043.10 Sqm**

- 16 Providing&fixingR.C.C.1:2:4guardstonesaspertypedesignincludingpaintingnumbering fixing in std. Size C. C. 1:4:8 block complete.

Lumpsum considered = 75.00  
 Total = 75.00  
**SAY = 75.00 Nos**

**PART II :- CROSS DRAINAGE WORKS**

- 17 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to adistance 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

C D Works 1 X 2 X 10.00 X 1.50 X 0.75 = 22.50  
 C D work Head wall 1 X 2 X 2.00 X 0.75 X 0.15 = 0.45  
 Total = 22.95  
**SAY = 23.00 Cum**

- 18 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 Means

C D Works 1 X 2 X 10.00 X 1.50 X 0.15 = 4.50  
 App work Head wall 1 X 2 X 2.00 X 0.75 X 0.15 = 0.45  
 Total = 4.95  
**SAY = 5.00 Cum**

- 19 Excavation for foundation in Hard murum including removing the excavated material upto a 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 from 1.5 to 3.0m.) By Mechanical Means

C D Works 1 X 2 X 10.00 X 1.50 X 0.10 = 3.00  
 App work Head wall 1 X 2 X 2.00 X 0.75 X 0.10 = 0.30  
 Total = 3.30  
**SAY = 3.30 Cum**

20 Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means

Total = 1.00  
**SAY = 1.00** Cum

21 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ 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 (Crushed sand VSI Grade)

C D Works	1	X	2	X	10.00	X	1.50	X	0.10	=	3.00		
App work Head wall	1	X	2	X	2.00	X	0.75	X	0.10	=	0.30		
										Total	=	3.30	
										<b>SAY</b>	=	<b>3.30</b>	Cum

22 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc. complete. (Crushed sand VSI Grade)

C D Works	2	X	2	X	10.00	X	0.45	X	0.35	=	6.23		
App work Head wall	1	X	2	X	2.00	X	0.45	X	1.20	=	2.16		
										Total	=	8.39	
										<b>SAY</b>	=	<b>8.40</b>	Cum

23 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, spandrels, copings, fins, arches etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wire sortack welding and supporting as required complete.

at 210Kgs / CuM	6	X	1	X	210					=	1.31		
										Total	=	1.31	
										<b>SAY</b>	=	<b>1.40</b>	MT

24 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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 fine aggregate (Crushed sand VSI Grade)

Slab	1	x	2	x	10.00	x	1.300	x	0.200	=	5.20		
										Total	=	5.20	
										<b>SAY</b>	=	<b>5.20</b>	Cum

25 Providing cement plaster 20mm thick in two coats in C.M. 1:4 with slurry finish to concrete or bricks surface or U.C.R surface in all positions including scaffolding & curing smooth cement slurry finish of 1.5mm thickness etc. complete as directed. (Crushed sand VSI Grade)

C D Works	1	X	2	X	10.00	X	1.20			=	24.00		
App work Head wall	1	X	2	X	2.00	X	0.65			=	2.60		
	2	X	2	X	0.45	X	0.10			=	0.18		
										Total	=	26.78	
										<b>SAY</b>	=	<b>26.80</b>	Sqm

26 Providing flush grooved pointing with cement mortar 1:3 for brickwork including scaffolding and curing etc. complete.

	2	X	2	X	2.00	X	0.65			=	5.20		
	2	X	2	X	2.00	X	0.45			=	3.60		
										Total	=	8.80	
										<b>SAY</b>	=	<b>8.80</b>	Sqm

27 Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.

I S N P III Class pipe	1	X	1	X	10.00					=	10.00		
										Total	=	10.00	
										<b>SAY</b>	=	<b>10.00</b>	RMT

28 Supplying & spreading Hard murum for cushioning of RCC pipe including watering ramming & leveling etc complete.

I S N P III Class pipe	1	X	1	X	10.00	X	1.50	X	0.90	=	13.50		
										Total	=	13.50	
										<b>SAY</b>	=	<b>13.50</b>	Cum

29 Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, formwork, compaction and curing etc. complete. (Crushed sand VSI Grade)

App C D Works Head Wall	1	X	2	X	2.00	X	0.45	X	0.10	=	0.18		
Above C.C. Pipe	1	X	1	X	10.00	X	1.50	X	0.15	=	2.25		
										Total	=	2.43	
										<b>SAY</b>	=	<b>2.50</b>	Cum

30 Providing earth work in embankment with approved materials obtained from departmental land upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller to achieve not less than 97 % of standard proctor density etc. complete. (Material obtained from departmental Land)

Provision = 10.00  
 Total = **10.00**  
**SAY** = **10.00** Cum

31 Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)

Road Formation  
 New Road  
 Long Side I-J 1 X 1 X 52.45 X 6.50 X 0.45 = 153.42  
 Long Side G-H 1 X 1 X 52.45 X 6.50 X 0.45 = 153.42  
 Long Side B-C, E-F 1 X 2 X 30.1 X 6.00 X 0.45 = 162.54  
 Short Side C-F, G-I, H-J 1 X 3 X 30.1 X 6.00 X 0.45 = 243.81  
 Total = **713.18**  
**SAY** = **713.20** Cum

32 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.

Provision = 10.00  
 Total = **10.00**  
**SAY** = **10.00** Cum

33 Conveying the materials obtained from excavation including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of excavation to the site of deposition as directed.

Qty. as per item No- 1 = 639.50  
 Total = **639.50**  
**SAY** = **639.50** Cum

**SUGAR GRID AGRO PRODUCER COMPANY LTD.  
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA**

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**S.W.III - Electrification**

**Based on PWD Electrical DSR 2021-22 & Market rates**

I. N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9				
1	Supplying, erecting & terminating XLPE armoured cable 3 core 6 sq. mm. copper conductor 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 as per specification no. CB-LT/CU	40.00	Running Meter	7-2-16/129	283.00	14.15	297.15					11886.00
2	Making trench of suitable width and depth in hard murum / tar road for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXNCTR	20.00	Running Meter	16-1-2/239	193.00	9.65	202.65					4053.00
3	Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW-EXN-CTR	20.00	Running Meter	16-1-1/239	156.00	7.80	163.80					3276.00
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @	90.00	Running Meter	RA	125.60	6.28	131.88					11869.20
5	Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.	8.00	Number	RA	1290.00	64.50	1354.50					10836.00

I. N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9				
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0,25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting &	4.00	Number	RA	1223.60	61.18	1284.78	5139.12				
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	2.00	Number	2-10-11/42	230.00	11.50	241.50	483.00				
8	Supplying and erecting LED street light fitting suitable for 20 to 25W, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS	2.00	Number	2-5-2/34	2009.00	100.45	2109.45	4218.90				
9	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	2.00	Number	2-9-4/38	712.00	35.60	747.60	1495.20				
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	1.00	Number	9-1-1/159	4238.00	211.90	4449.90	4449.90				
11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA-EP	1.00	Number	9-1-4/159	1355.00	67.75	1422.75	1422.75				
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-6/94	488.00	24.40	512.40	512.40				
13	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-3/94	164.00	8.20	172.20	172.20				

I. N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9				
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	1.00	Square Meter	6-1-2/112	2264.00	113.20	2377.20	2377.20				
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete.	1.00	Square Meter	6-1-14/113	1342.00	67.10	1409.10	1409.10				
16	Supplying and erecting triple pole and neutral istribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	2.00	Number	RA	4732.00	236.60	4968.60	9937.20				
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	20.00	Running Meter	7-6-1/138	196.00	9.80	205.80	4116.00				
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	20.00	Running Meter	7-6-2/138	304.00	15.20	319.20	6384.00				
19	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.	12.00	Running Meter	7-6-10/139	227.00	11.35	238.35	2860.20				
20	Supplying & erecting 18 guage M.S. Box powder coated (4"x4") 3 way for mains connection.	2.00	Number	MR	80.00	4.00	84.00	168.00				
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	4.00	Number	7-7-2/139	58.00	2.90	60.90	243.60				

I. N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9				
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible	1.00	Number	RA	1573.00	78.65	1651.65					1651.65
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW	2.00	Number	1-9-8/17	496.00	24.80	520.80					1041.60
24	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6 m in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC	1.00	Number	RA	466.00	23.30	489.30					489.30
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping 20 mm on wall / ceiling.	2.00	Running Meter	RA	131.00	6.55	137.55					275.10
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping on wall / ceiling.	2.00	Running Meter	RA	154.00	7.70	161.70					323.40
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP.	1.00	Number	5-1-1/89	177.00	8.85	185.85					185.85
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP ..	4.00	Number	5-1-3/89	783.00	39.15	822.15					3288.60
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.	1.00	Number	2-10-9/40	125.00	6.25	131.25					131.25
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W	2.00	Number	2-10-2/40	44.00	2.20	46.20					92.40

I. N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9				
31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	1.00	Number	2-10-14/40	626.00	31.30	657.30	657.30				
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF	1.00	Square Meter	2-12-2/41	1894.00	94.70	1988.70	1988.70				
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality G.I. wire mesh	2.00	Number	2-4-10/33	442.00	22.10	464.10	928.20				
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size	1.00	Number	2-4-13/33	131.00	6.55	137.55	137.55				
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	3.00	Number	2-9-3/38	575.00	28.75	603.75	1811.25				
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete.	1.00	Number	5-4-23/97	361.00	18.05	379.05	379.05				
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board complete.	1.00	Number	5-3-24/95	625.00	31.25	656.25	656.25				
							Total in Rs.	=	101346.42			

**SUGAR GRID AGRO PRODUCER COMPANY LTD.  
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA**

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**ELECTRICAL MEASUREMENT SHEET**

Item Nos & Description of Items	NO.S	LENGTH	BREDTH	DEPTH /	TOTAL QUANTITY	Unit
1 Supplying, erecting & terminating XLPE armoured cable 3 core 6 sq. mm. copper conductor 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 as per specification no. CB-LT/CU						Running Meter
For WH 2000 MT	1 X 1	X 40	X 1	X 1	= 40.00	
					TOTAL = 40.00	
					SAY = 40.00	
2 Making trench of suitable width and depth in hard murum / tar road for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXNCTR						Running Meter
For WH 2000 MT	1 X 1	X 20	X 1	X 1	= 20.00	
					Total 20.00	
					say 20.00	
3 Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW-EXN-CTR						Running Meter
For WH 2000 MT	1 X 1	X 20	X 1	X 1	= 20.00	
					Total = 20.00	
					say = 20.00	
4 Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @ 0.25 m C/C & rigidly grouted in the wall with the help of plated screws.						Running Meter
For WH 2000 MT	1 X 90	X 1	X 1	X 1	= 90.00	
					Total = 90.00	
					say = 90.00	
5 Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.						Number
For WH 2000 MT	2 X 4	X 1	X 1	X 1	= 8.00	
					Total = 8.00	
					say = 8.00	
6 Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0,25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting & inside 10 amp Nylon connector strip for street light connection and flexible cable of 2 mtrs. for street light connection etc. complete as directed by Engineer in charge.						Number
For WH 2000 MT	2 X 2	X 1	X 1	X 1	= 4.00	
					Total 4.00	
					say 4.00	
7 Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.						Number
For WH 2000 MT	1 X 2	X 1	X 1	X 1	= 2.00	
					Total 2.00	
					say 2.00	
8 Supplying and erecting LED street light fitting suitable for 20 to 25W, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS						Number
For WH 2000 MT	1 X 2	X 1	X 1	X 1	= 2.00	
					Total 2.00	
					Say 2.00	
9 Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB						Number
For WH 2000 MT	1 X 2	X 1	X 1	X 1	= 2	
					Total 2.00	
					say 2.00	
10 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP						0
For WH 2000 MT	1 X 1	X 1	X 1	X 1	= 1.00	
					Total = 1.00	
					Say = 1.00	

11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA-EP											0
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00
										Total	=	1.00
										say	=	<b>1.00</b>
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB											0
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00
										TOTAL	=	1.00
										SAY	=	<b>1.00</b>
13	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB											0
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00
										TOTAL	=	1.00
										SAY	=	<b>1.00</b>
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint											Square Meter
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00
										TOTAL	=	1.00
										SAY	=	<b>1.00</b>
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete.											Square Meter
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00
										Total	=	1.00
										Say	=	<b>1.00</b>
16	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) as per specification no. SW											0
	For WH 2000 MT	1	X	2	X	1	X	1	X	1	=	2.00
										Total	=	2.00
										Say	=	<b>2.00</b>
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE											Running Meter
	For WH 2000 MT	1	X	20	X	1	X	1	X	1	=	20.00
										Total	=	20.00
										say	=	<b>20.00</b>
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE											Running Meter
	For WH 2000 MT	1	X	20	X	1	X	1	X	1	=	20.00
										Total	=	20.00
										say	=	<b>20.00</b>

19	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	Running Meter
	For WH 2000 MT	
	2 X 6 X 1 X 1 X 1 = 12.00	
	Total	12.00
	say	<b>12.00</b>
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection	0
	For WH 2000 MT	
	1 X 2 X 1 X 1 X 1 = 2.00	
	Total	2.00
	say	<b>2.00</b>
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	0
	For WH 2000 MT	
	1 X 4 X 1 X 1 X 1 = 4.00	
	Total	4.00
	say	<b>4.00</b>
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible cord with hand shield type 3 pin 6 Amp. Plug top.	0
	For WH 2000 MT	
	1 X 1 X 1 X 1 X 1 = 1.00	
	Total	1.00
	say	<b>1.00</b>
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW	0
	For WH 2000 MT	
	1 X 2 X 1 X 1 X 1 = 2.00	
	Total	<b>2.00</b>
	say	<b>2.00</b>
24	Power point wiring for geaser / Refrigerator with ISI mark 2 x 2.50 Sq.mm copper PVC insulated wire 1.1 KV grade in PVC casing-caping with double locking arrangement with 1 x 1.00 Sq.mm copper PVC insulated wire for earthing on wall / ceiling with necessary G.I.screws etc. fixed at an internal of not	0
	For WH 2000 MT	
	1 X 1 X 1 X 1 X 1 = 1.00	
	Total	<b>1.00</b>
	say	<b>1.00</b>
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - caping 20 mm on wall / ceiling.	Running Meter
	For WH 2000 MT	
	1 X 2 X 1 X 1 X 1 = 2.00	
	TOTAL	2.00
	say	<b>2.00</b>
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - caping on wall / ceiling.	Running Meter
	For WH 2000 MT	
	1 X 2 X 1 X 1 X 1 = 2.00	
	Total	2.00
	say	<b>2.00</b>
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP.	Number
	For WH 2000 MT	
	1 X 1 X 1 X 1 X 1 = 1.00	
	Total	1.00
	Say	<b>1.00</b>
28	Supplying and erecting double pole metal clad switch withHC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP	Number
	For WH 2000 MT	
	1 X 4 X 1 X 1 X 1 = 4.00	
	Total	4.00
	Say	<b>4.00</b>
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base	Number
	For WH 2000 MT	
	1 X 1 X 1 X 1 X 1 = 1.00	
	Total	1.00
	Say	<b>1.00</b>
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W	Number
	For WH 2000 MT	
	1 X 2 X 1 X 1 X 1 = 2.00	
	Total	2.00
	Say	<b>2.00</b>
31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	Number
	For WH 2000 MT	
	1 X 1 X 1 X 1 X 1 = 1.00	
	Total	1.00
	Say	<b>1.00</b>
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF	Square Meter

	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00	
										Total		1.00	
										Say		<b>1.00</b>	
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality G.I. wire mesh size 25 x 25 (mm) and made up of 14 SWG G.I. wire with side / supporting MS strips of suitable size.												Number
	For WH 2000 MT	0	X	1	X	4	X	1	X	1	=	0.00	
	For WH 2000 MT	1	X	2	X	1	X	1	X	1	=	2.00	
										Total		2.00	
										Say		<b>2.00</b>	
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size												Number
	For WH 2000 MT	0	X	1	X	2	X	1	X	1	=	0.00	
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00	
										Total		1.00	
										Say		<b>1.00</b>	
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB												Number
	For WH 2000 MT	0	X	1	X	5	X	1	X	1	=	0.00	
	For WH 2000 MT	1	X	1	X	3	X	1	X	1	=	3.00	
										Total		3.00	
										Say		<b>3.00</b>	
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB /TP MCB /FP MCBerected on angle iron/GI frame complete.												Number
	For WH 2000 MT	0	X	1	X	1	X	1	X	1	=	0.00	
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00	
										Total		1.00	
										Say		<b>1.00</b>	
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board complete.												Number
	For WH 2000 MT	0	X	1	X	1	X	1	X	1	=	0.00	
	For WH 2000 MT	1	X	1	X	1	X	1	X	1	=	1.00	
										Total		1.00	
										Say		<b>1.00</b>	

RA CIVIL WORK GODOWN

## Rate Analysis

### Item No.

<b>35</b>	P, f & f steel ventilors V1 Consider 0.36 sq m area Alluminim opertable ventilors 1 - Basic rate I.N. 39.51b /257	Qty 0.36  0.36	Rate  5621.00	Amount  2023.56		
	2 - Add for M.S.flat 19mm x 3mm For 0.36 sq m = 2.40 M 1x2.40 = 2.40 Weight 0.45 Kg/ Rm (0.45 x 2.40)	1.08			2.40	0.45
	As per I N 23.01/173	1.08	101.84	109.99		
	3 - Add G.I.wiremesh 18G x 6 sqmm M R	0.36	400.00	144.00		
	4 - Painting three coats for G.I.wire mesh 1/2 x 2 x 0.60 x 0.60 = 0.36 sq m  I.N. page no 35.04/164	0.36	85.00	30.60		
	5 - Add for 12 mm sq bars  For 0.36 sq m = 7 x 0.60 + 4 x 0.10 = 4.60 Rm Weight 1.13 Kg/ Rm As per I N 23.01/173	1.00	5.20	101.84	529.39	4.60 1.13
	6 - Add for fixing charges of wire mesh MR	0.36	100.00	36.00		
	7 - Add for sundries, overheads & agencies profit * over [ 3 & 6 ] 10 %			18.00		
	Total Rs			2891.54		
	Rate per sq m will be RS.			<b>8032.05</b>		

### 36. P & f Steel rolling with grilled shutter 20 gauge

	Quantity	Rate	Amount	2.10	2.55
M.R. as per qouatation of Vishwakarma shutters Nagpur Dt.23.1.2023 For 2.00x2.50 m size shutter			26208.03		
Add Transporatation charges			500.00		
Add contractors profit 10% over2,3,4			2670.80		
per sq m rate will be			29378.83		
			5875.77		
	<b>Say</b>		<b>5875.77</b>		

**37 P & f Steel rolling shutter 20 gauge**

	Qty	Rate	Amount		
1- Basic rate I.No.39.24/248	1.00	4829.00	4829.00		
2 - Add for central lock M R	1.00	500.00	93.37	2.10	2.55
3 - Add for painting not considered in basic rate 1x 2 x 1.14 x 2.20 x 2.55 = 12.79 1x 1 x 2.40 x 1.25 = 3.13					
Total = 15.92 sq m	15.92	89.00	264.59		
I.N. page no 35.04/223					
4. Handles	4.00	75.00	56.02		
Add contractors profit 10% over 2 & 4			14.94		
<b>Total</b>			<b>5257.92</b>		
<b>Say</b>			<b>5257.92</b>		

**39 P H.M.filling in plinth**

Consider 1.00 cu m quantity

1 - Basic rate 21.37 pg no 157	1.00	599.00	599.00
2 - Lead Charges	1.20	0.00	0.00

**Therefore rate per cu m will be say Rs 599.00**

**47 Lightening conductor**

I.NO 44.18/295	25784.00	1.00	25784.00
I.NO 44.19/295	793.00	10.20	8088.60
			33872.60
Rate/Nos.			33872.60
Say			<b>33873.00</b>

**55** Providing and fixing in position G.I. wiremesh of 18 Gauge, 6 mm square mesh sandwiched between frame of 19 mm X 3 mm thick M.S. flat and welded from inside for higher level ventilators (V 2) including painting with initial coat of red oxide & oilpainting two coat etc complete as directed by Engineer in charge.

P , f & f steel ventilors V1	Qty	Rate	Amount
Consider 0.60 sq m area	0.60		
1 - Add G.I.wiremesh 18G x 6 sqmm M R	0.60	600.00	360.00
2- Add for 19 mm X 3 mm M.S. flat			
For 0.60 sq m = 2 x2 ((1.00 + 0.60)+(0.60+0.60) = 7.60 Rm Weight 0.45 Kg/ Rm	3.42	101.840	348.29
3 - Painting three coats for G.I.wire mesh			
1/2 x 2 x 1.00 x 0.60 = 0.60 sq m Consider 1.00 m length 35.20/224	0.60	122.00	73.20
4 - Add for cutting in required size and fixing MR	0.60	150.00	90.00
5 - Add for sundries, overheads & agencies profit * over [ 1 & 4 ] 10 %			45.00
<b>Total Amount</b>			<b>916.49</b>

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**Rate Analysis Electrical**

**Item No. 4 :-**

Supplying erecting mains PVC unarmoured cable 1100 volt grade / ISI mark 3 core / 2.5 sqmm standard / solid copper complete erected on wall with duly painted G.I. Saddle @ 0.25 m C/C & rigidly grouted in the wall with the help of plated screws.

M.R. A) PVC unarmoured cable 3 core 2.5 Sq. mm -----	Rs. 84.00
M.R. B) G.I. saddle , screw and rawl plug etc -----	12.00
Add 10% C.P.	9.60
D.S. R. C) Labour charges -- as per item no. 7-2-16	20.00

**Total Qty. = 125.60**

**Item No. 5 :-**

Supplying erecting waether proof powder oated distribution board 4 way with 2 x 6 / 10 Amps S.P.M.C.B. with industrial two pin plug socket 10A and 3 pin plug top 10 A with top cover necessary connection etc. complete with approved make.

I.N. 5-3-3/94 A) SPMCB 6 Amp. - 1 No. @ Rs. 164	164.00
I.N. 5-4-22-97 B) 1.25 mm CRCA shet metal enclosure with 10 Amp 2 pin plug	765.00
I.N. 5-4-23/97 . C) CRCA sheet metal one way enclosure ----	361.00

**Total Qty. = 1290.00**

**Item No. 6 :-**

Providing point wiring for street light with PVC unarmoured cable 1100 Volt grade ISI mark 3 core 1.5 sqm standard / solid copper erected on wall with G.I. saddle duly painted @ 0.25 m C/C rigidly grouted in the wall with the help of plated screw including 4' x 4' M.S. box 2 way with epoxy painting & inside 10 amp

M.R. A) PVC unarmoured cable 3 core 1.5 Sq. mm ----- ( 13 x 52 )	676.00
M.R. B) M.S. Box epoxy coated ( 2 way 4' x 4' -----	70.00
M.R.. C) Nylon Connector strip 10 Amp	10.00
M.R.. D) G.I. saddle , screw and rawl plug etc. -----	25.00
M.R.. E ) Flexible cable for street light connection 3 core 1.5 sq. mm ( 2 x 45 )	95.00
876.00	
Add 10% CP	87.60
M.R.. F ) Labour Charges ( 20 x 13 )	260.00

**Total Qty. = 1223.60**

**Item No. 16 :-**

Supplying and erecting triple pole and netural distrubtion board ( TPNDDB ) suface /flush mounted suitable for SPMCB of 12 ways on iron /GI frame ( horizontal bushar type ) as per specification no CB-CE

I.N. 5-4-1/96 A) TPN MCB & Newtral Distribution board 12 ways ----- I. No.	1775.00
I.N. 5-3-15/94 B) TPNMCB 40 A to 63 A ----- I. No.	977.00
I.N. 5-3-2/94 . C) Single pole MCB 6 A to 32 A ----- 12 Nos. @ Rs. 165 / No.	1980.00

**Total Qty. = 4732.00**

**Item No. 22 :-**

Supplying shockproof type hand lamp with lamp holder builb/lamp 100W guarded glass and 30 mtr. 3 core PVC flexible cord with hand shiled type 3 pin 6Amp plug. Top.

I.N. 2-2-1/31 A) Shockproof hand lamp ----- 1 No.	164.00
I.N. 2-10-12 /40 B) LED Lamp 10/12 W ----- 1 No.	309.00
M.R. C) 3 core 1.50 sq. mm flexible cord ----- 20 Rmt @ vRs. 50 / -	1000.00
Add 10% CP on ( C )	100.00

**Total Qty. = 1573.00**

**Item No. 24 :-**

point wiring for independent in 20mm ISI marked HMS PVC conduct with 1.5 Sq mm ( 2+1E) FRISH grade copper wire flush type switch earthing and required accessories as per specification No WG-PW/SW

I.N. 1-3-3/5 A) 2 x 2.5 S.qmm copper wire ----- 2 Rmt @ Rs. 57	114.00
I.N. 1-7-12 /12 B) Combined switch & socket 13 A ----- I. No. @ Rs. 136	136.00
I.N. 1-2-9/5 C) PVC Casing capping 20 mm ----- 6 Rmt @VRs. 36	216.00

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Total Qty. = **466.00**

**Item No. 25 :-**

power point wiring for geaser/Refrigerator with ISI mark 2x2.50 sq mm copper PVC insulated wire 1.1 KV grade in PVC casing capping with double locking arrangement with 1x1.00 sq mm copper PVC insulated wire for earthing on wall/ ceiling with necessary G.I. screws etc, fixed at an

I.N. 1-3-3/5 A) 2 x 2.5 S.qmm copper wire ----- 2 Rmt @ Rs. 57	57.00
I.N. 1-3-1 /5 B) 2 x 1.5 Sq. mm Copper wire ----- I. No. @ Rs. 38	38.00
I.N. 1-2-9/4 C) PVC Casing capping 20 mm ----- @VRs. 36	36.00

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Total Qty. = **131.00**

**Item No. 26 :-**

Supplying and erecting mains with 2x 4.00 Sq mm stander copper PVC insulated wire with 2x2.15 sq mm copper PVC wire in PVC casting capping 20 mm on wall / ceiling .

I.N. 1-3-3/5 A) 2 x 4 S.qmm copper wire ----- @ Rs. 78	78.00
I.N. 1-3-1 /6 B) 2 x 1.5 Sq. mm Copper wire ----- @ Rs. 38	38.00
I.N. 1-2-10/4 C) PVC Casing capping 25 mm ----- @Rs. 38	38.00

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Total Qty. = **154.00**







Item.. No.	Item No & Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M									
			Cement in bags		SAND		METAL		MURUM		RUBBLE	
26	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	6.00	6	0	0	0	0	0	0	0	0
27	Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	360	0.17	61.2	0.025	9	0	0	0	0	0	0
28	Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	355	0.17	60.35	0.025	8.875	0	0	0	0	0	0
29	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With CEMENT smooth finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed (Natural Sand)	520	0.22	114.4	0.031	16.12	0	0	0	0	0	0
39	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [ Only compacted thickness is payable.	955.00		0	0	0	0	0	1.2	1146	0	0

Item.. No.	Item No & Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M									
			Cement in bags		SAND		METAL		MURUM		RUBBLE	
43	Providing and laying in situ Tremix Cement Concrete M -20, with Natural Sand, with Tremix treatment for 150 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep at every 4.00 m c/c both sides with necessary refilling with bitumen,etc. complete as directed by Engineer Incharge.Withfineaggregate ( Crushed sand VSI Grade finely washed etc	1003.14	7	7021.952	0	0	0	0	0	0	0	0
44	Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. ((Crushed sand VSI Grade)	29.00	6	174	0	0	0	0	0	0	0	0
<b>Sub Work II Internal Road</b>					0	0	0	0	0	0	0	0
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	240.00	0	0	0	0	1.32	316.8	0	0	0	0
4	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc. complete.	206.6	0	0	0	0	1.32	272.712	0	0	0	0
5	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete.	137.7	0	0	0	0	1.32	181.764	0	0	0	0
8	Supplying hard murum/ kankar at the road site, including conveying and stacking complete	87.4	0	0	0	0	0	0	1.2	104.88	0	0
31	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete ( Material obtained from Other sources)	713.2	0	0	0	0	0	0	1.2	855.84	0	0
			<b>Total</b>	<b>9817.64</b>	<b>0.08</b>	<b>34.00</b>	<b>3.96</b>	<b>771.28</b>	<b>3.60</b>	<b>2106.72</b>	<b>0.00</b>	<b>0.00</b>

**SUGAR GRID AGRO PRODUCER COMPANY LTD.  
GAT NO. 1751 VADUJ TAL. KHATAV DIST. SATARA**

**NAME OF WORK :- CONSTRUCTION OF 1/2000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS**

**Royalty Charges Recovery Statements**

Sr. No.	Particular	Required Quantity in Cum	Royalty	Surcharge 2%	Distt. Mineral Foundati on Cess 10%	Total Rate	Amount
1	Sand	34.00	211.95	4.24	21.2	237.39	8070.07
2	Metal Hand Broken	771.28	211.95	4.24	0	216.19	166742.16
3	Murum	2106.72	211.95	4.24	0	216.19	455451.80
4	Rubble	0.00	211.95	4.24	0	216.19	0.00
<b>Total Amount Rs.</b>						<b>630264.03</b>	
<b>Say Amount Rs.</b>						<b>630265.00</b>	

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**S. W. V:- Material Lab Testing charges**

**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	9818	Bags	Cement- Fineness, Standard Consistency, Setting Time (Initial & Final ), Compressive strength, Soundness	2	7540	15080	one tesr per 1000 Bags
2	Concrete M-10 grade	53.00	cum	M10- Concrete cube compressive strength (Set of 3 Cubes)	2	1380	2760	1 test for 15 cum
3	Concrete M-25 grade	210.00	cum	Mix Design M-25 with all tests on basic materials	1	27510.00	27510	One per 500 cum of concrete
				M 25 - Concrete cube compressive strength (Set of 3 Cubes)	12	1380.00	16560	1 test for 15 cum
4	Bricks	119.00	cum	Bricks- Crushing value, Water absorption, & Specific Gravity	1	4350	4350	one test per 50000 Nos. of bricks or part.
5	TMT steel bars	23.02	M.T.	Steel - Tensile strength ,Yield stress, ultimate tensile stress, %elongation, weight per running meter,Bend/Rebend test.(Set of 3 Bars)	3	2550	7650	1 test per 5.00 M.T. and one for each dia. Of use bar
6	Sand	34.00	cum	Sand - Fineness Modulus, silt & clay content.	1	2760	2760	1 test per source
7	Murum in plinth	2106.72	cum	Murum - Plasticity Index	2	2340	4680	1 test per 1000 Cum.
Murum - Field Density of compacted layer				2	2230	4460	1 test per 250 Sq.m	
Murum - Proctor Test				2	3720	7440	1 test per 1000 Cum.	
8	Earthwork	240.00	cum	Earthwork- Gradation	2	1380	2760	1 test per 400 Cum.
	For embankment			Earthwork- Plasticity Index	2	2340	4680	1 test per 400 Cum.
	(H.M/S.M.)			Earthwork- Moisture content prior to compaction	1	1590	1590	1 test per 400 Cum.
				Earthwork- Density of compacted layer	1	2230	2230	1 test per 1000 Sq.m
				Earthwork- Proctor Test	1	3720	3720	2 test per 3000 Cum.
				<b>TOTAL</b>			<b>108230</b>	

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LEADS & RATES OF MATERIALS									
on D S R 2021-22									
S.N.	MATERIAL & LOCATION	UNIT	Dist. In KM	Actual Lead charges	LEAD		Pay load Factor	rate/unit	Rate
					INITIAL	DIFF			For Supply
1	Natural Sand	CU M	5.00	0	0.00	0.00	1.00	0.00	
	crush Sand	CU M	5.00	0	0.00	0.00	1.00	0.00	
2	METAL UPTO 40MM crushed	CU M	7.00	0	0.00	0.00	1.00	0.00	Lead per Cu.M.
3	METAL ABOVE 40 MM Road	CU M	7.00	0	0.00	0.00	1.00	0.00	Lead per Cu.M.
4	RUBBLE	CU M	5.00	0	0.00	0.00	1.00	0.00	Lead per Cu.M.
5	BRICKS	Cum	5.00	0	0.00	0.00	1.00	0.00	
6	HARD MURUM/Soft Murumn	CU M	10.00	0	0.00	0.00	1.00	0.00	Lead per Cu.M.
7	Royalty	1							
8	Cement	MT	10	0	0.00	0.00	9.00	0.00	Lead per bag
9	Steel	MT	10	0	0.00	0.00	9.00	0.00	Lead per M.T.
10	Bitumen	kg	1000.00	0.00	0.00	0.00	1.00	0.00	
								km'	
			<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>			km'	
1	C.C. 1:5:10 for foundation & bedding	SAND	0.47	0.00	0.00			km'	1000.00
	Natural Sand	METAL	0.94	0	0.00				1429.61
		Cement	2.6	0	0.00			for per kg	172.00
					0.00				8.31
1	C.C. 1:5:10 for foundation & bedding	SAND	0.47	0	0.00				
	crush Sand	METAL	0.94	0	0.00				
		Cement	2.52	0	0.00				
		Natural Sand	0	0	0.00				
					0.00				
			<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>				
2	C.C. 1:3:6 for foundation & bedding	SAND	0.47	0.00	0.00				
	Natural Sand	METAL	0.94	0.00	0.00				
		Cement	4.4	0	0.00				
					0.00				
2	C.C. 1:3:6 for foundation & bedding	SAND	0.47	0.00	0.00				
	crush Sand	METAL	0.94	0	0.00				
		Cement	4.4	0	0.00				
		Natural Sand	0	0.94	0.00				
					0.00				