

ESTIMATE

**NAME OF WORK:- PROPOSED CONSTRUCTION OF SHED
FOR MACHINERY UNIT AT GRAMPANCHAYAT PLOT NO. 254
OF TANDULWADI, TQ. LATUR DIST. LATUR.
FOR : SHIVMALHAR AGRO PRODUCER COMPANY LTD.,
TANDULWADI, TQ. LATUR.**

ESTIMATED COST :-

Rs,	52.35	LAKHS	INCL GST
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Prepared By:

AVG CONSULTANTS (ESTB.1988)

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(Sustainable Architecture)

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GENERAL ABSTRACT

(A)	COST OF WORK PORTION (S.W.-I)	Rs.	4249000.00
(B)	COST OF ELECTRICAL WORK (S.W.II)	Rs.	111200.00
(B)	ROYALTY CHARGES (S.W.III)	Rs.	89530.00
TOTAL		Rs.	4449730.00

1) ADD 18% FOR GOODS AND SERVICES TAX
ON WORK PORTION AND ELECTRICAL (S.W.I AND II)

	Rs.	784836.00
18 % X	4360200.00	

GRAND TOTAL	Rs.	5234566.00
SAY	Rs.	5235000.00



Engineer/ Architect

Anant V. Gade

Er. Anant V. Gade
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Architectural Consultant and
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FACE SHEET

The Work Construction of SHED FOR SEED GRADING MACINEREY UNIT at Ramegaon, Tq. & Dist. Latur has been Proposed by M/s. PGB CROP AGRO PRODUCER COMPANY LTD., RAMEGAON, LATUR

Accordingly detailed estimate has been prepared and submitted alongwith detailed Plan which is as per the norms prescribed by the Maharashtra State Warehousing Corporation. Provisions made in the estimate are as per the specifications.

Main GODOWN

- 1) Excavation For Foundation In Soft, Hard Murum & Boulders
- 2) PCC 1:3:6 For Foundation & Bedding
- 3) R.C.C. M20 for Frame Structure Column, Beams, etc.
- 4) B.B.Masonry In CM 1:6 in Foundation & Superstructure.
- 5) Internal Plaster in CM 1:5 20 mm Thick
- 6) External Sand Face Plaster 25 mm In CM 1:4
- 7) Rolling Shutter for Door Openings.
- 8) Steel Windows Ventilators as per the specifications .
- 9) M30 C.C. tremix flooring of 200 mm thickness.
- 10) PEB Structural Steel Frame for Roofing with Zinalum Corrugated Sheets for roofing.
- 11) Internal Washeable Oil Bound Distemper, External Water Proof Cement Paint..

All necessary provisions are made in the estimate.

The estimate is based on current SSR 2021-22. Rate analysis for all items are included with the estimate with all above provisions.

Submitted for further action regarding the project.



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ABSTRACT

SR NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & 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 Bd.A.1 Page No. 259 SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197 BASIC RATE	161.480	193.00	Cu.M.	31166.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and 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 Bd.A.2 Page No. 259 SSR OF 2021-22 ITEM NO. 21.06 & PAGE NO.197 BASIC RATE	23.160	212.00	Cu.M.	4910.00
3	Excavation for foundation in Hard murum and boulders 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 m to 3.0 m.) By Bd.A.3 Page No. 259 SSR OF 2021-22 ITEM NO. 21.12 & PAGE NO.198 BASIC RATE	11.580	291.00	Cu.M.	3370.00
4	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, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VST Bd. E. 1 Page No. 287 SSR OF 2021-22 ITEM NO. 24.01 & PAGE NO.226 RATE ANALYSIS	49.828	5842.03	Cu.M.	291097.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
5	<p>Providing and laying in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, 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 fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand /</p> <p>Bd.F.3 Page No. 298 and B.7, Page No.38 SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230 RATE ANALYSIS</p>	21.725	6755.26	Cu.M.	146758.00
6	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including 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 fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.</p> <p>Bd.F.5 Page No. 300 and B.7, Page.No. 38 SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232 RATE ANALYSIS</p>	7.931	12444.16	Cu.M.	98695.00
7	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural</p> <p>Bd.F.6 Page No. 300 and B.7, Page No.38 SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234 RATE ANALYSIS</p>	13.658	11090.56	Cu.M.	151475.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
8	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed Bd.F.9 Page No. 303 and B.7, Page No.38</p> <p>SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239 RATE ANALYSIS</p>	0.734	12555.76	Cu.M.	9216.00
9	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including centering, formwork, laying/pumping, compacting, and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VET Bd.F.10 Page No. 304</p> <p>SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240 RATE ANALYSIS</p>	0.518	12714.28	Cu.M.	6586.00
10	<p>Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine Bd. F. 13 Page No. 305 /I.S. 456 (2000</p> <p>SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.241 RATE ANALYSIS</p>	2.657	12579.16	Cu.M.	33423.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
11	<p>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 Bd.F.17, Page No. 306</p> <p>SSR OF 2021-22 ITEM NO. 26.33 & PAGE NO.245 RATE ANALYSIS</p>	4.291	71943.55	M.T.	308710.00
12	<p>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 Bd.G. 1 Page No. 313</p> <p>SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254 RATE ANALYSIS</p>	23.322	8067.26	Cu.M.	188145.00
13	<p>Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.</p> <p>Bd.A.10 Page No. 262</p> <p>SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.201 BASIC RATE</p>	34.740	113.00	Cu.M.	3926.00
14	<p>Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete.</p> <p>Bd.A.11 Page No. 263</p> <p>SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.201 RATE ANALYSIS</p>	253.449	728.55	Cu.M.	184650.00
15	<p>Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit ramming watering etc. complete As directed by Engineer in charge.</p> <p>SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201 RATE ANALYSIS</p>	65.181	1735.65	Cu.M.	113131.00
16	<p>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</p> <p>Bd.G.5 Page No. 315</p> <p>SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254 RATE ANALYSIS</p>	39.228	8294.26	Cu.M.	325367.00
17	<p>Providing internal cement plaster 20mm thick in two coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete</p> <p>Bd.L.4 Page No. 368</p> <p>SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.268</p>				



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	RATE ANALYSIS	198.870	395.94	Sq.M.	78741.00
18	<p>Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Bd.L.7 Page No. 369</p> <p>SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO.269</p>				
	RATE ANALYSIS	204.390	648.30	Sq.M.	132506.00
19	<p>Providing and fixing in position factory made box type steel window with glazed fanlight including steel windows of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and metal pressed steel shutters of 20 gauge (1mm) as per detailed drawing and design or as directed including providing horizontal mild steel 12mm square bars at 10cm center to center, required F-7B section, section 7-6, section 20mm x 5mm mild steel flat for shutter and F4B section for frame, 3mm thick glass of approved quality for fanlight necessary fixtures and fastening As directed by Engineer in charge</p> <p>SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317</p>				
	BASIC RATE	8.640	5150.00	Sq.M.	44496.00
20	<p>Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red Bd.T.55, Page No. 510</p> <p>SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.318</p>				
	BASIC RATE	10.710	4310.00	Sq.M.	46160.00
21	<p>Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushina & broomina down Bd. P. I Page No. 411</p> <p>SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290</p>				
	BASIC RATE	403.260	11.00		4436.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
22	<p>Providing and applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.)</p> <p>Bd.P.5 Page No. 413</p> <p>SSR OF 2021-22 ITEM NO. 36.11 & PAGE NO.291</p> <p>BASIC RATE</p>	198.870	43.00	Sq.M.	8551.00
23	<p>Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc.</p> <p>Bd.O.8/Page No.406</p> <p>SSR OF 2021-22 ITEM NO. 35.15 & PAGE NO.287</p> <p>BASIC RATE</p>	204.390	97.00	Sq.M.	19826.00
24	<p>Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). 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. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti capillary groove and return leg. The feed As directed by Engineer in charge.</p> <p>SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302</p> <p>BASIC RATE</p>	1.000	1095.00	Sq.M.	1095.00
25	<p>Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen As directed by Engineer in charge</p> <p>SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277</p> <p>RATE ANALYSIS</p>	227.640	1548.63	Sq.M.	352530.00
26	<p>Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.</p> <p>231/24</p>	1126.441	19.00	Sq.M.	21402.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
27	Compacting the subgrade/ gravel/ size metal (100 mm loose) layer for all widths with Power roller having weight 8 to 10 MT. including labour, materials and artificial watering etc. complete.	326.934	27.00	Sq.M.	8827.00
28	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	357.312	89.18	Sq.M.	31865.00
29	Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2mm thick with multiple points head 1.2mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50mm dia of required length with M.S. round base plate 25 Cm dia and 10mm thick at bottom embeded in cement concrete 1:3:6 foundation of size 45cm diam x 45cm Height and providing earthing with copper earthplate of size 60x60x0.3cms with cadmium plated nutbolts to fix earthing strip burried in specially prepared earthpits 1.5metre below ground level with 40kg charcoal and salt with	15.000	2132.00	Sq.M.	31980.00
TOTAL(A) Rs.					2683040.00
30	Laboratory testing charges are not considered in the Rate Abstracts. Where ever required separate item shall be taken in the estimate for material testing charges, on the basis of testing frequency and charges fixed by Vigulance & Quality Control Circle, for the current year and shall form part of tender. testing of material by Quality control and certified quality must be use by contractor.				
	BASIC TEST OF AGGREGATE Water Absorption, Specific Gravity, Impact Value, Crushing Value	1.000	2450.00	Nos.	2450.00
	BASIC TEST OF CEMENT Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness	1.000	3550.00	Nos.	3550.00
	BRICKS Water Absorption , Compressive Strength, Efflorescence (Set of 5 bricks)	1.000	2050.00	Nos.	2050.00
	CONCRETE Compressive strength of C.C.Cube (Set of 3 cubes)	9.000	650.00	Nos.	5850.00
	MURUM-HARD Sieve Analysis	1.000	650.00	Nos.	650.00
	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1.000	1200.00	Nos.	1200.00
Total Testing Charges					15750.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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Total of Main Building with Testing Charges

2698790.00

PARTR-B: PEB STRUCTURE

1	Above Plinth PEB Structure - providing & erecting PEB structure with zincallume sheets etc.complete.	297.192	5000.00	Sq.M.	1485960.00
2	Providing and erecting Turbo ventilator 24" 42 /374 supply 8680.00+ 1000.00 fixing + 1000.00 polycarbonate = Total Rate 10680	6.000	10680.00	Sq.M.	64080.00

Total of PEB STRUCTURE

1550040.00

GRAND TOTAL Rs. 4248830.00

Say Rs. 4249000.00



Engineer/ Architect

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MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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SUB UNIT-I : MACHINERY SHED WORK:

- 1 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & 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

SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197

FOR COLUMN FOUNDATION

TYPE- C1	2 X 5 X 1.50 X 1.70 X 1.000 =	25.500
C2	2 X 2 X 1.50 X 1.80 X 1.000 =	10.800
C3	2 X 2 X 1.50 X 1.80 X 1.000 =	10.800
CP (for Platforms)	2 X 2 X 1.50 X 1.80 X 1.000 =	10.800

FOR PLINTH PROTECTION

1 X 2 X 25.35 X 0.60 X 0.600 = 18.252

For Rain water GUTTER

1 X 2 X 12.19 X 0.60 X 0.600 = 8.777

1 X 2 X 25.95 X 0.60 X 0.900 = 28.026

1 X 2 X 12.79 X 0.60 X 0.900 = 13.813

FOR EXTERNAL PLINTH BEAM

2 X 6 X 4.03 X 0.23 X 0.380 = 4.222

Excavation in Plinth

2 X 3 X 4.07 X 0.23 X 0.450 = 2.527

1 X 1 X 11.70 X 23.90 X 0.100 = 27.963

TOTAL QUANTITY **161.480**

Cu.M.

- 2 Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical

SSR OF 2021-22 ITEM NO. 21.06 & PAGE NO.197

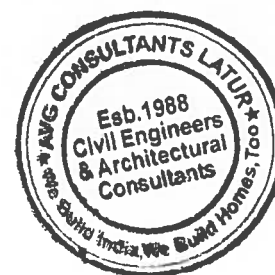
FOR COLUMN FOUNDATION

TYPE- C1	2 X 5 X 1.50 X 1.70 X 0.400 =	10.200
C2	2 X 2 X 1.50 X 1.80 X 0.400 =	4.320
C3	2 X 2 X 1.50 X 1.80 X 0.400 =	4.320
CP (for Platforms)	2 X 2 X 1.50 X 1.80 X 0.400 =	4.320

TOTAL QUANTITY **23.160**

Cu.M.

- 3 Excavation for foundation in Hard murum and boulders 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 m to 3.0 m.) By Mechanical Means



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
SSR OF 2021-22 ITEM NO. 21.12 & PAGE NO.198						
FOR COLUMN FOUNDATION						
	TYPE- C1	2 X 5	1.50 X 1.70	X 0.200	=	5.100
	C2	2 X 2	1.50 X 1.80	X 0.200	=	2.160
	C3	2 X 2	1.50 X 1.80	X 0.200	=	2.160
	CP (for Platforms)	2 X 2	1.50 X 1.80	X 0.200	=	2.160
TOTAL QUANTITY						11.580
						Cu.M.

- 4 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, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely

SSR OF 2021-22 ITEM NO. 24.01 & PAGE NO.226

FOR COLUMN FOUNDATION

TYPE- C1	2 X 5 X 1.50 X 1.70 X 0.100 =	2.550
C2	2 X 2 X 1.50 X 1.80 X 0.100 =	1.080
C3	2 X 2 X 1.50 X 1.80 X 0.100 =	1.080
CP (for Platforms)	2 X 2 X 1.50 X 1.80 X 0.100 =	1.080

FOR Rain water Gutter

1 X 2 X 25.35 X 0.60 X 0.100 = 3.042

FOR PLINTH PROTECTION

1 X 2 X 12.19 X 0.60 X 0.100 = 1.463

1 X 2 X 25.95 X 0.60 X 0.100 = 3.114

1 X 2 X 12.79 X 0.60 X 0.100 = 1.535

FOR BELOW GROUND BEAMS

2 X 6 X 4.03 X 0.38 X 0.450 = 8.261

2 X 3 X 4.07 X 0.38 X 0.450 = 4.176

FOR BEDDING BELOW TRIMIX FLOORING

1 X 1 X 11.73 X 23.92 X 0.080 = 22.447

TOTAL QUANTITY **49.828**

Cu.M.

- 5 Providing and laying in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, 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 fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230

FOR COLUMN FOOTING-bottom base

TYPE- C1	2 X 5 X 1.20 X 1.40 X 0.350 =	5.880
C2	2 X 2 X 1.20 X 1.40 X 0.350 =	2.352
C3	2 X 2 X 1.20 X 1.50 X 0.350 =	2.520
CP (for Platforms)	2 X 2 X 1.20 X 1.50 X 0.350 =	2.520

FOR COLUMN FOOTING-bottom base



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	TYPE- C1	2 X 5	0.75	0.95	0.500	= 3.563
	C2	2 X 2	0.75	0.95	0.500	= 1.425
	C3	2 X 2	0.75	1.05	0.700	= 2.205
	CP (for Platforms)	2 X 2	0.75	1.05	0.400	= 1.260
TOTAL QUANTITY						21.725
						Cu.M.

6 Providing and laying **Cast in situ/Ready Mix cement concrete M-20** of trap / granite /quartzite/ gneiss metal for **R.C.C. columns** as per detailed designs and drawing or as directed including 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 **fully automatic micro processor based PLC with SCADA** enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer)

SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232

FOR COLUMN UPTO PLINTH

TYPE- C1	2 X 5	0.23	0.45	1.400	= 1.449
C2	2 X 2	0.23	0.45	1.400	= 0.580
C3	2 X 2	0.23	0.45	1.400	= 0.580
CP (for Platforms)	2 X 2	0.23	0.57	1.400	= 0.734

FOR COLUMN ABOVE PLINTH:

TYPE- C1	2 X 5	0.23	0.45	2.100	= 2.174
C2 AT GABLE WALL - AVG HT. 6.10 MTR.	2 X 2	0.23	0.45	2.100	= 0.869
C3	2 X 2	0.23	0.45	2.100	= 0.869
C4 (at Shutter above DB)	2 X 2	0.23	0.35	2.100	= 0.676

TOTAL QUANTITY **7.931**
Cu.M.

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

SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234

PLINTH BEAMS BELOW GROUND LEVEL

Beam @ Long walls	2 X 6	4.03	0.23	0.350	= 3.893
Gable walls/ short wall	2 X 3	4.07	0.23	0.350	= 1.966
Beams @ platform	2 X 2	1.20	0.23	0.350	= 0.386
	2 X 1	3.42	0.23	0.350	= 0.551
Shutter beams	1 X 2	4.97	0.23	0.350	= 0.800
Beams DB	2 X 6	4.03	0.23	0.300	= 3.337
	2 X 3	4.07	0.23	0.300	= 1.685
Lintel over Ventilator V-1	2 X 6	1.70	0.34	0.150	= 1.040



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MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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TOTAL QUANTITY **13.658**
Cu.M.

8 Providing and laying **Cast in situ/Ready Mix cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal for **R.C.C. chajja** as per detailed design and drawings including centering, formwork, cover blocks compacting, curing, finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). **with fully automatic micro processor based PLC with SCADA** enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. **With fine**
SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239

FOR Ventilators V-1

$2 \times 6 \times 1.70 \times 0.45 \times 0.080 = 0.734$
TOTAL QUANTITY **0.734**

Cu.M.

9 Providing and laying **Cast in situ/Ready Mix cement concrete M-25** of trap / granite / quartzite / gneiss metal for **R.C.C. canopy** as per detailed designs and drawings including centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). **with fully automatic micro processor based PLC with SCADA** enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. **With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)**

SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240

At Ventilators V1

$2 \times 12 \times 0.60 \times 0.45 \times 0.080 = 0.518$
TOTAL QUANTITY **0.518**

Cu.M.

10 Providing and laying **Cast in situ/Ready Mix cement concrete in M-20** of trap / quartzite /granite /gneiss metal for **R.C.C. Waist slab, and steps of staircases** as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) **with fully automatic micro processor based PLC with SCADA** enabled

SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.241

For Platform

$2 \times 1 \times 4.92 \times 1.80 \times 0.150 = 2.657$

TOTAL QUANTITY **2.657**

Cu.M.



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
11	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 SSR OF 2021-22 ITEM NO. 26.33 & PAGE NO.245 QUANTITY REQUIRED 70KG/Cu.M. OF RCC...FOOTING = 1.521 QUANTITY REQUIRED 100KG/Cu.M. OF RCC...COLUMNS = 0.793 QUANTITY REQUIRED 120KG/Cu.M. OF RCC...BEAM/LINTELS = 1.639 QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CHHAJJA = 0.073 QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CANOPY = 0.052 QUANTITY REQUIRED 80KG/Cu.M. OF RCC...SLAB/STEPS = 0.213 TOTAL QUANTITY 4.291 M.T.					
12	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 cut joints on exposed faces and watering etc. SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254 IN PLINTH-- Long walls 2 X 6 X 4.03 X 0.23 X 1.000 = 11.123 Short walls 2 X 3 X 4.07 X 0.23 X 1.000 = 5.617 For Rainwater gutter 2 X 2 X 24.38 X 0.10 X 0.450 = 4.388 2 X 2 X 12.19 X 0.10 X 0.450 = 2.194 TOTAL QUANTITY 23.322 Cu.M.					
13	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete. SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.201 QUANTITY SAME AS PER ITEM NO.2 = 23.160 QUANTITY SAME AS PER ITEM NO.3 = 11.580 TOTAL QUANTITY 34.740 Cu.M.					
14	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.201 FOR GODOWN 1 X 1 X 11.77 X 23.92 X 0.900 = 253.449 TOTAL QUANTITY 253.449 Cu.M.					
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete. SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201 FOR BELOW FLOORING 1 X 1 X 11.73 X 23.92 X 0.200 = 56.116 For plinth Protection 1 X 2 X 25.58 X 0.60 X 0.200 = 6.139 1 X 2 X 12.19 X 0.60 X 0.200 = 2.926 TOTAL QUANTITY 65.181					



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
16	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					
	SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254 FOR SUPER STRUCTURE (Below DB/ Shutter top)	2 X 6 X	4.03 X	0.23 X	2.550 =	28.363
		2 X 3 X	4.07 X	0.23 X	2.550 =	14.322
	DEDUCTION - Shutters	-1 X 2 X	2.10 X	0.23 X	2.550 =	-2.463
	Ventilators- V1	-1 X 12 X	0.60 X	0.23 X	0.600 =	-0.994
	TOTAL QUANTITY					39.228 Cu.M.
17	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete					
	SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.268 INTERNAL SIDE	1 X 2 X	23.92 X	3.00	=	143.520
		1 X 2 X	11.73 X	3.00	=	70.380
	Deductions					
	Shutter	-1 X 2 X	2.10 X	2.55	=	-10.710
	Ventilators- V1	-1 X 12 X	0.60 X	0.60	=	-4.320
	TOTAL QUANTITY					198.870 Sq.M.
18	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by					
	SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO.269 EXTERNAL	1 X 2 X	24.38 X	3.00	=	146.280
		1 X 2 X	12.19 X	3.00	=	73.140
	DEDUCTION					
		-1 X 2 X	2.10 X	2.55	=	-10.710
		-1 X 12 X	0.60 X	0.60	=	-4.320
	TOTAL QUANTITY					204.390 Sq.M.
19	Providing and fixing in position factory made box type steel window with glazed fanlight including steel windows of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and metal pressed steel shutters of 20 gauge (1mm) as per detailed drawing and design or as directed including providing horizontal mild steel 12mm square bars at 10cm center to center, required F-7B section, section 7-6, section 20mm x 5mm mild steel flat for shutter and F4B section for frame, 3mm thick glass of approved quality for fanlight necessary fixtures and fastening					
	SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317 FOR WINDOWS/ VENTILATORS.. V1	2 X 12 X	0.60 X	0.60	=	8.640



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
TOTAL QUANTITY						8.640 Sq.M.

20 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild

SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.318
FOR GODOWN

$$1 \times 2 \times 2.10 \times 2.55 = 10.710$$

TOTAL QUANTITY	10.710
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Sq.M.

21 Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing & brooming down

SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290

QUANTITY SAME AS PER ITEM NO.17

QUANTITY SAME AS PER ITEM NO.18

= 198.870
= 204.390

TOTAL QUANTITY	403.260
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Sq.M.

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

SSR OF 2021-22 ITEM NO. 36.11 & PAGE NO.291

QUANTITY SAME AS PER ITEM NO.17

= 198.870

TOTAL QUANTITY	198.870
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Sq.M.

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

SSR OF 2021-22 ITEM NO. 35.15 & PAGE NO.287

QUANTITY SAME AS PER ITEM NO.18

= 204.390

TOTAL QUANTITY	204.390
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Sq.M.



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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24 Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). 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. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product **SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302** provision

= 1.000

TOTAL QUANTITY	1.000
	Sq.M.

25 Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.

SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277
FOR FLOORING

1 X 1 X 12.00 X 18.97	= 227.640
TOTAL QUANTITY	227.640
	Sq.M:

26 Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.

FOR main bldg.

1 X 4 X 11.77 X 23.92	= 1126.441
TOTAL QUANTITY	1126.441
	Sq.M.

27 Compacting the subgrade/ gravel/ size metal (100 mm loose) layer for all widths with Power roller having weight 8 to 10 MT. including labour, materials and artificial watering etc. complete.

FOR GODOWN

For metal in plinth along periphery

1 X 1 X 11.77 X 23.92	= 281.610
1 X 2 X 24.38 X 0.60	= 29.256
1 X 2 X 13.39 X 0.60	= 16.068
TOTAL QUANTITY	326.934
	Sq.M.



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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28 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 Bd.C.2 Page No. 275

SSR OF 2021-22 ITEM NO. 23-01 & PAGE NO.223

For platforms @ 16.80 Kg/mtr.

Holdfasts 20mm Dia.

L50X50X6 for fire bucket @4.50 Kg/mtr.

1 X 2 X 4.92 X 16.80 kg/m = 165.312

1 X 2 X 24.00 X 0.60 x 2.500 = 72.000

= 120.000

TOTAL QUANTITY

357.312

Sq.M.

29 Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mmdia. 1.2mm thick with multiple points head 1.2mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50mm dia of required length with M.S. round base plate 25 Cm dia and 10mm thick at bottom embedded in cement concrete 1:3:6 foundation of size 45cm diam x 45cm Height and providing earthing with copper earthplate of size 60x60x0.3cms with cadmium plated nutbolts to fix earthing strip buried in specially prepared earthpits 1.5metre below ground level with 40kg

1 X 1 X 15.00

= 15.000

TOTAL QUANTITY

15.000

Rg.mtr.

30 Laboratory testing charges are not considered in the Rate Abstracts. Where ever required separate item shall be taken in the estimate for material testing charges, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year and shall form part of tender. testing of material by Quality control and certified

BASIC TEST OF AGGREGATE

Water Absorption, Specific Gravity, Impact Value, Crushing Value

1

Nos. = 1.000

BASIC TEST OF CEMENT

Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness

1

Nos. = 1.000

BRICKS

Water Absorption , Compressive Strength, Efflorescence (Set of 5 bricks)

1

Nos. = 1.000

CONCRETE

Compressive strength of C.C.Cube (Set of 3 cubes)

9

Nos. = 9.000

MURUM-HARD

Sieve Analysis

1

Nos. = 1.000

STEEL BAR TESTING

Upto 16 mm (Set of 3 Bars)

1

Nos. = 1.000

TOTAL QUANTITY

14.000



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MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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PART-B : PEB STRUCTURE

- 1 Above Plinth PEB Structure - providing & erecting PEB structure with zincalume sheets etc.complete.

1 X 1 X 12.19 X 24.38 = 297.192

TOTAL QUANTITY	297.192
	Sq.M.

- 2 Turbo ventilator 24"

2 X 3 = 6.000

TOTAL QUANTITY	6.000
	Nos.



Engineer/ Architect

Er. Anant V. Gade

D.C.E., B.E. Civil, B.A., B.G.L., LL.B.,
 PG.D.H.R.D., PG.D. Envir.Sci., PG.D.Val.,
 PG. D.I.S.&S.M., PG.G.D.C.&A., M.A. Socio.
 LL.M., PG.D.Guid.& Conus., (M.B.A.)
 Architectural Consultant and
 Govt.Regd.Valuer

NAME OF WORK:- PROPOSED CONSTRUCTION OF SHED FOR MACHINERY AT GRAMPANCHAYAT PLOT NO. 254 OF TANDULWADI, TQ. LATUR DIST. LATUR. FOR : SHIVMALHAR AGRO PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.

Subwork III : Royalty Charges

S.W.-1: SHED FOR MACHINERY

Sr No.	Item Number and Description of Item	Execute d Quanti	Quantity of Material for Royalty ((Cu.M.))					Murum	Rubble
			Cement in Bags	Sand	Metal	Murum	Rubble		
1	2	3	4	5	6	7	8		
14	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete.	253.449	0.0	0.0	0.0	1.20000	304.139		
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	65.181	0.0	0.0	1.32	86.039			

TOTAL: 0.000 0.000 86.039 304.139 0.000

Quantity	CEMENT	SAND	GR.METAL	MURUM	RUBBLE
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S.W. 7

Royalty Charges 264

ROYALTY CHARGES RECOVERY STATEMENT

Sr No.	PARTICULAR	Required Quantity in CUM.	Royalty	Surcharge 2%	Dist. Mineral Foundation Cess 10%	Total Rate	Amount	
1	SAND	0.000	211.95	4.239	21.195	237.384	0.000	
2	METAL HARD BROKEN	86.039	211.95	4.239		216.189	18600.668	
3	MURUM	304.139	211.95	4.239		216.189	65751.463	
4	RUBBLE	0.000	211.95	4.239		216.189	0.000	
Total of Royalty Charges Rs.							84352.131	
Say Rs.							84360.000	

Er. Anant V. Gade

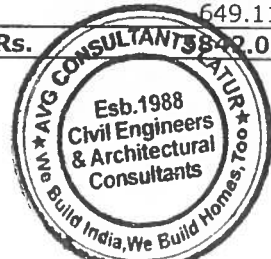
Er. Anant V. Gade
 D.C.E., B.E., C.M.I., B.A., B.G.L., -L.B.,
 P.G.D.H.R.D., P.G.D. Envir. Sci., P.G.D. Vall.,
 P.G. D.I.S. & S.M., P.G. D.C. & A., M.A., B.Sc. (b),
 LL.M., P.G. D. Guid. & Conus., (M.B.A.)
 Architectural Consultant and
 Govt. Regd. Valuer



NAME OF WORK:- PROPOSED CONSTRUCTION OF SHED FOR MACHINERY UNIT AT GRAMPANCHAYAT PLOT NO. 254 OF TANDULWADI, TQ. LATUR DIST. LATUR. FOR : SHIVMALHAR AGRO PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.

RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & 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 BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197			193.00
TOTAL RATE Rs.				193.00 PerCu.M.
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.06 & PAGE NO.197			212.00
TOTAL RATE Rs.				212.00 PerCu.M.
3	Excavation for foundation in Hard murum and boulders 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 m to 3.0 m) By Mechanical Means BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.12 & PAGE NO.198			291.00
TOTAL RATE Rs.				291.00 PerCu.M.
4	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, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 24.01 & PAGE NO.226			5538.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.47000	141.34	-66.43
				5471.57
	ADD LEAD CHARGES FOR CEMENT	0.22000	165.55	36.42
	ADD LEAD CHARGES FOR SAND	0.47000	947.37	445.26
	ADD LEAD CHARGES FOR CR METAL	0.24000	300.37	72.09
	ADD LEAD CHARGES FOR 40MM METAL CB	0.70000	278.70	195.09
	@ADD DIFF.COST FOR SAND	0.47000	625.00	293.75
	@ADD DIFF.COST FOR 20MM METAL	0.24000	-96.00	-23.04
	TOTAL			6491.14
	DEDUCT 10% FOR SCADA			649.11
TOTAL RATE Rs.				5842.03 PerCu.M.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
5	Providing and laying In situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, 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 fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand) etc. BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230			6666.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
				6605.93
	ADD LEAD CHARGES FOR CEMENT	0.35000	165.55	57.94
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			7505.84
	DEDUCT 10% FOR SCADA			-750.58
				6755.26
			TOTAL RATE Rs.	6755.26 PerCu.M.
6	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including 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 fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand) etc. BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232			12987.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
				12926.93
	ADD LEAD CHARGES FOR CEMENT	0.35000	165.55	57.94
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			13826.84
	DEDUCT 10% FOR SCADA			-1382.68
				12444.16
			TOTAL RATE Rs.	12444.16 PerCu.M.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
7	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234			11483.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
				11422.93
	ADD LEAD CHARGES FOR CEMENT	0.35000	165.55	57.94
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			12322.84
	DEDUCT 10% FOR SCADA			-1232.28
	TOTAL RATE Rs.			11090.56 PerCu.M.
8	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239			13111.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
				13050.93
	ADD LEAD CHARGES FOR CEMENT	0.35000	165.55	57.94
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			13950.84
	DEDUCT 10% FOR SCADA			-1395.08
	TOTAL RATE Rs.			12555.76 PerCu.M.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
9	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240			13283.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
	ADD LEAD CHARGES FOR CEMENT	0.37500	165.55	62.08
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			14126.98
	DEDUCT 10% FOR SCADA			-1412.70
	TOTAL RATE Rs.			12714.28 PerCu.M.
10	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / quartzite / granite / gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.241			13137.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	-60.07
	ADD LEAD CHARGES FOR CEMENT	0.35000	165.55	57.94
	ADD LEAD CHARGES FOR SAND	0.42500	947.37	402.63
	ADD LEAD CHARGES FOR CR METAL	0.85000	300.37	255.31
	@ADD DIFF.COST FOR SAND	0.42500	625.00	265.63
	@ADD DIFF.COST FOR 20MM METAL	0.57000	-96.00	-54.72
	@DEDUCT DIFF.COST FOR 12MM METAL	0.28000	96.00	-26.88
	TOTAL			13976.84
	DEDUCT 10% FOR SCADA			-1397.68
	TOTAL RATE Rs.			12579.16 PerCu.M.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
11	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			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.33 & PAGE NO.245			71778.00
	ADD LEAD CHARGES FOR STEEL	1.00000	165.55	165.55
	TOTAL RATE Rs.			71943.55 PerM.T.
12	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			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254			7343.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.32000	141.34	-45.23
	ADD LEAD CHARGES FOR CEMENT	0.07900	165.55	13.08
	ADD LEAD CHARGES FOR SAND	0.32000	947.37	303.16
	ADD LEAD CHARGES FOR BRICKS	0.47500	533.16	253.25
	@ADD DIFF.COST FOR SAND	0.32000	625.00	200.00
	TOTAL RATE Rs.			8067.26 PerCu.M.
13	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.201			113.00
	TOTAL RATE Rs.			113.00 PerCu.M.
14	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete.			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.201			550.00
	ADD LEAD CHARGES FOR MURUM-HARD	1.00000	186.55	186.55
	@ADD DIFF.COST FOR MURUM-HARD	1.00000	-8.00	-8.00
	TOTAL RATE Rs.			728.55 PerCu.M.
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201			1322.00
	ADD LEAD CHARGES FOR SOLING	1.00000	367.47	367.47
	ADD LEAD CHARGES FOR GRIT.	0.15000	287.86	43.18
	@ADD DIFF.COST FOR GRIT	0.15000	20.00	3.00
	TOTAL RATE Rs.			1735.65 PerCu.M.
16	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			



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

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SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO. 254			7570.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.32000	141.34	-45.23
				<u>7524.77</u>
	ADD LEAD CHARGES FOR CEMENT	0.07900	165.55	13.08
	ADD LEAD CHARGES FOR SAND	0.32000	947.37	303.16
	ADD LEAD CHARGES FOR BRICKS	0.47500	533.16	253.25
	@ADD DIFF.COST FOR SAND	0.32000	625.00	200.00
	TOTAL RATE Rs.			<u>8294.26</u> PerCu.M.
17	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO. 268			359.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.02500	141.34	-3.53
				<u>355.47</u>
	ADD LEAD CHARGES FOR CEMENT	0.00700	165.55	1.16
	ADD LEAD CHARGES FOR SAND	0.02500	947.37	23.68
	@ADD DIFF.COST FOR SAND	0.02500	625.00	15.63
	TOTAL RATE Rs.			<u>395.94</u> PerSq.M.
18	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO. 269			599.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.03300	141.34	-4.66
				<u>594.34</u>
	ADD LEAD CHARGES FOR CEMENT	0.01250	165.55	2.07
	ADD LEAD CHARGES FOR SAND	0.03300	947.37	31.26
	@ADD DIFF.COST FOR SAND	0.03300	625.00	20.63
	TOTAL RATE Rs.			<u>648.30</u> PerSq.M.
19	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			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 23.01 & PAGE NO. 223			89181.00
	TOTAL RATE Rs.			<u>89181.00</u> PerM.T.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
20	<p>Providing and fixing in position factory made box type steel window with glazed fanllght Including steel windows of cold rolled section of 105mm x 60mm x 1.25mm thick frame section filled with cement concrete (1:2:4) and metal pressed steel shutters of 20 gauge (1mm) as per detailed drawing and design or as directed including providing horizontal mild steel 12mm square bars at 10cm center to center, required F-7B section, section 7-6, section 20mm x 5mm mild steel flat for shutter and F4B section for frame, 3mm thick glass of approved quality for fanlight necessary fixtures and fastening etc. complete finishing with one coat</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317</p>			5150.00
TOTAL RATE Rs.				5150.00 PerSq.M.
21	<p>Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.318</p>			4310.00
TOTAL RATE Rs.				4310.00 PerSq.M.
22	<p>Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing & brooming down etc. complete</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290</p>			11.00
TOTAL RATE Rs.				11.00 PerSq.M.
23	<p>Providing and applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat) etc. complete</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 36.11 & PAGE NO.291</p>			43.00
TOTAL RATE Rs.				43.00 PerSq.M.
24	<p>Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 35.15 & PAGE NO.287</p>			97.00
TOTAL RATE Rs.				97.00 PerSq.M.



RATE ANALYSIS. (BASIC RATES AS PER SSR 2021-22)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
25	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). 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. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc Tin alloy coated. Hex head self-drilling screw etc.			
SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302				1095.00
TOTAL RATE Rs.				1095.00 PerSq.M.

26 Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.

BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277

DEDUCT ROYALTY CHARGES FOR SAND	0.08500	141.34	-12.01	
ADD LEAD CHARGES FOR CEMENT	0.08000	165.55	13.24	
ADD LEAD CHARGES FOR SAND	0.08500	947.37	80.53	
@ADD DIFF.COST FOR SAND	0.08500	625.00	53.13	
ADD LEAD CHARGES FOR CR METAL	0.17000	300.37	51.06	
@ADD DIFF.COST FOR CR METAL	0.17000	-96.00	-16.32	
TOTAL RATE Rs.				1548.63 PerSq.M.



Engineer/ Architect

(Handwritten Signature)

Er. Anant V. Gade
 D.C.E., B.E. Civil, B.A., B.G.L., LL.B.,
 PG.D.H.R.D., PG.D. Envir.Sci., PG.D.Val.,
 PG. D.I.S & S.M., PG.G.D.C.&A., M.A.Socio.
 LL.M., PG.D.Guid & Conus., (M.B.A.)
 Architectural Consultant and
 Govt.Regd.Valuer

**NAME OF WORK:- PROPOSED CONSTRUCTION OF MACHINERY SHED AT GRAMPANCHAYAT
PLOT NO. 254 OF TANDULWADI, TQ. LATUR DIST. LATUR. FOR : SHIVMALHAR AGRO
PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.**

ABSTRACT

(SUB WORK II : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Dist	Total of 6 +7	Amount
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-	15.000	Running Meter	7-2-16/129	283.00	14.15	297.15	4457.00
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	8.000	Running Meter	16-1-2-/239	193.00	9.65	202.65	1621.00
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	8.00	Running Meter	16-1-2-/240	156.00	7.80	163.80	1310.00
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 slated screws	95.00	Running Meter	RA	125.60	6.28	131.88	12529.00
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	8.00	Number	RA	1290.00	64.50	1354.50	10836.00



ABSTRACT

(SUB WORK II : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	L.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Dist.	Total of 6 +7	Amount
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	8.00	Number	RA	1223.60	61.18	1284.78	10278.00
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base..	4.00	Number	2-10-11/42	230.00	11.50	241.50	966.00
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	2.00	Number	2-5-2/34	2009.00	100.45	2109.45	4219.00
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	2.00	Number	2-9-4/38	712.00	35.60	747.60	1495.00
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	1.00	Number	9-1-1/159	4238.00	211.90	4449.90	4450.00
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	1.00	Number	9-1-14159	1355.00	67.75	1422.75	1423.00
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	512.00



ABSTRACT

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(SUB WORK II : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Dist.	Total of 6 +7	Amount
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	172.00
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 two coats of	1.00	Square Meter	6-1-2/112	2264.00	113.20	2377.20	2377.00
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	1409.00
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-SWR/MCDBDB	4.00	Number	RA	4732.00	236.60	4968.60	19874.00
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-CF	12.00	Running Meter	7-6-i/138	196.00	9.80	205.80	2470.00
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	8.00	Running Meter	7-6-2/138	304.00	15.20	319.20	2554.00
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	16.00	Running Meter	7-6-10/139	227.00	11.35	238.35	3814.00
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection.	4.00	Number	MR	80.00	4.00	84.00	336.00



ABSTRACT

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(SUB WORK II : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Dist.	Total of 5+7	Amount
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	6.00	Number	7-7-2/139	58.00	2.90	60.90	365.00
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	2.00	Number	MR	1573.00	78.65	1651.65	3303.00
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	1042.00
24	Supplying and erecting Street light bracket made from 25mm. Dia. B' class G.I. Pipe, 0.6m in length along with pole cap of 300mm 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	489.00
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	275.00
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	323.00
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	186.00
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 ..	8.00	Number	5-1-3/89	783.00	39.15	822.15	6577.00



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ABSTRACT

(SUB WORK II : ELECTRICAL)

SR-NO.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Estt.	Total of 6+7	Amount
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.	2.00	Number	2-10/9/40	125.00	6.25	131.25	263.00
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W	8.00	Number	2-10-2/41	44.00	2.20	46.20	370.00
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	1.00	Number	2-10-14/42	626.00	31.30	657.30	657.00
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	2.00	Square Meter	2-12-2/41	1894.00	94.70	1988.70	3977.00
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	4.00	Number	2-4-10/33	442.00	22.10	464.10	1856.00
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	2.00	Number	2-4-13/33	131.00	6.55	137.55	275.00
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	5.00	Number	2-9-3/38	575.00	28.75	603.75	3019.00
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB /TP MCB /FP MCBerected on angle iron/GI frame complete.	1.00	Number	5-4-23/97	361.00	18.05	379.05	379.00



ABSTRACT

(SUB WORK II : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N.	RATE Rs. Ps.	Add 5.00 % other than Dist.	Total of 6 +7	Amount
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution	1.00	Number	5-3-24/95	625.00	31.25	656.25	656.00
Total in Rs.							111114.00	

SAY 111200.00

AVG
Er. Anant V. Gade

D.C.E., B.E. Civil, B.A., B.G.L., LL.B.,
PG.D.H.R.D., PG.D. Envir.Sci., PG.D.Val.,
PG. D.I.S.&S.M., PG.G.D.C.&A., M.A.Socio.
LL.M., PG.D.Guld.& Conus., (M.B.A.)
Architectural Consultant and
Govt.Regd.Valuer



NAME OF WORK:- PROPOSED CONSTRUCTION OF MACHINERY SHED AT GRAMPANCHAYAT PLOT NO. 254 OF TANDULWADI, TQ. LATUR DIST. LATUR. FOR : SHIVMALHAR AGRO PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.

**SUB-WORK : II
ESTIMATE FOR ELECTRICAL WORK FOR PRE ENGINEERED
SHED FOR MACHINERY**

**MEASUREMENT SHEET
(Based on PWD Electrical DSR 2021-22 & Market Rates)**

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	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 For WH 1700 MT	1 X 1 X 15.00 X	1	X	1	= 15.00	Running Meter
						TOTAL QUANTITY	15.00
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 For WH 1700 MT	1 X 1 X 8.00 X	1	X	1	= 8.00	Running Meter
						TOTAL QUANTITY	8.00
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 For WH 1700 MT	1 X 1 X 8.00 X	1	X	1	= 8.00	Running Meter
						TOTAL QUANTITY	8.00
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. For WH 1700 MT	1 X 1 X 95 X	1	X	1	= 95.00	Running Meter
						TOTAL QUANTITY	95.00
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. For WH 1700 MT	1 X 2 X 4 X	1	X	1	= 8.00	Number
						TOTAL QUANTITY	8.00



MEASUREMENT SHEET

(Based on PWD Electrical DSR 2021-22 & Market Rates)

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT	
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						Number	
	For WH 1700 MT	1 X 2 X 4 X 1 X 1 =				8.00		
		TOTAL QUANTITY					8.00	
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base..						Number	
	For WH 1700 MT	2 X 2 X 1 X 1 X 1 =				4.00		
		TOTAL QUANTITY					4.00	
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 1700 MT	1 X 1 X 2 X 1 X 1 =				2.00		
		TOTAL QUANTITY					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 1700 MT	1 X 1 X 2 X 1 X 1 =				2.00		
		TOTAL QUANTITY					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						Number	
	For WH 1700 MT	1 X 1 X 1 X 1 X 1 =				1.00		
		TOTAL QUANTITY					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						Number	
	For WH 1700 MT	1 X 1 X 1 X 1 X 1 =				1.00		
		TOTAL QUANTITY					1.00	
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB						Number	
	For WH 1700 MT	1 X 1 X 1 X 1 X 1 =				1.00		



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MEASUREMENT SHEET

(Based on PWD Electrical DSR 2021-22 & Market Rates)

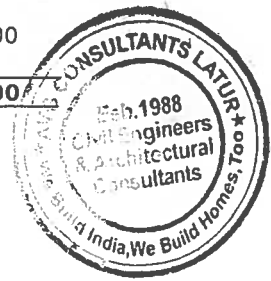
SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT					
TOTAL QUANTITY						1.00						
13	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB						Number					
	For WH 1700 MT	1	X	1	X	1	X	1	=	1.00		
TOTAL QUANTITY						1.00						
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 two coats of enamel paint, etc. complete.						Square Meter					
	For WH 1700 MT	1	X	1	X	1	X	1	=	1.00		
TOTAL QUANTITY						1.00						
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 1700 MT	1	X	1	X	1	X	1	=	1.00		
TOTAL QUANTITY						1.00						
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-SWR/MCBDB						Number					
	For WH 1700 MT	1	X	4	X	1	X	1	X	1	=	4.00
TOTAL QUANTITY						4.00						
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 1700 MT	1	X	12	X	1	X	1	X	1	=	12.00
TOTAL QUANTITY						12.00						
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						Running Meter					
	For WH 1700 MT	1	X	8	X	1	X	1	X	1	=	8.00
TOTAL QUANTITY						8.00						
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.						Running Meter					
	For WH 1700 MT	2	X	8	X	1	X	1	X	1	=	16.00
TOTAL QUANTITY						16.00						



MEASUREMENT SHEET

(Based on PWD Electrical DSR 2021-22 & Market Rates)

SR. No.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT
20	Supplying & erecting 18 guage M.S. Box powder coated (4"x4") 3 way for For WH 1700 MT	1 X 2 X 2 X 1 X 1 =				4.00	Number
TOTAL QUANTITY						4.00	
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 For WH 1700 MT	1 X 6 X 1 X 1 X 1 =				6.00	Number
TOTAL QUANTITY						6.00	
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 For WH 1700 MT	1 X 2 X 1 X 1 X 1 =				2.00	Number
TOTAL QUANTITY						2.00	
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 For WH 1700 MT	1 X 2 X 1 X 1 X 1 =				2.00	Number
TOTAL QUANTITY						2.00	
24	Supplying and erecting Street light bracket made from 25mm. dia_B' class G.I.Pipe, 0.6m in length along with pole cap of 300mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC For WH 1700 MT	1 X 1 X 1 X 1 X 1 =				1.00	Number
TOTAL QUANTITY						1.00	
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. For WH 1700 MT	1 X 2 X 1 X 1 X 1 =				2.00	Running Meter
TOTAL QUANTITY						2.00	
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. For WH 1700 MT	1 X 2 X 1 X 1 X 1 =				2.00	Running Meter
TOTAL QUANTITY						2.00	



MEASUREMENT SHEET

(Based on PWD Electrical DSR 2021-22 & Market Rates)

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT
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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 1700 MT 1 X 1 X 1 X 1 X 1 = 1.00

TOTAL QUANTITY **1.00**

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 Number

For WH 1700 MT 1 X 8 X 1 X 1 X 1 = 8.00

TOTAL QUANTITY **8.00**

29 Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 Number

For WH 1700 MT 1 X 2 X 1 X 1 X 1 = 2.00

TOTAL QUANTITY **2.00**

30 Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W Number

For WH 1700 MT 1 X 8 X 1 X 1 X 1 = 8.00

TOTAL QUANTITY **8.00**

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 1700 MT 1 X 1 X 1 X 1 X 1 = 1.00

TOTAL QUANTITY **1.00**

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 Number

For WH 1700 MT 1 X 2 X 1 X 1 X 1 = 2.00

TOTAL QUANTITY **2.00**

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 1700 MT 1 X 1 X 4 X 1 X 1 = 4.00

TOTAL QUANTITY **4.00**

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



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MEASUREMENT SHEET

(Based on PWD Electrical DSR 2021-22 & Market Rates)

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT
	For WH 1700 MT	1 X 1 X	2 X	1 X	1	= 2.00	
						TOTAL QUANTITY	2.00
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 1700.MT	1 X 1 X	5 X	1 X	1	= 5.00	
						TOTAL QUANTITY	5.00
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 1700 MT	1 X 1 X	1 X	1 X	1	= 1.00	
						TOTAL QUANTITY	1.00
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 1700 MT	1 X 1 X	1 X	1 X	1	= 1.00	
						TOTAL QUANTITY	1.00



Engineer/ Architect

(Signature)

Er. Anant V. Gade
 D.C.E., B.E. Civil, B.A., B.G.L., LL.B.,
 PG.D.H.R.D., PG.D. Envir.Sci., PG.D.Val.,
 PG. D.I.S.&S.M., PG.G.D.C.&A., M.A. Socio.
 LL.M., PG.D. Guid & Conus., (M.B.A.)
 Architectural Consultant and
 Govt. Regd. Valuer

NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GRAMPANCHAYAT PLOT NO. 254 OF TANDULWADI , TQ. LATUR DIST. LATUR. FOR : SHIVMALHAR AGRO PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.

RATE ANALYSIS

ESTIMATE FOR CONSTRUCTION OF MACHINERY SHED

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.	Rs.
	M.R. A) P.V.C. unarmoured cable-3 core 2.5 sq.mm.....	84.00
	M.R. B) G.I.Shaddle, screw and rawl plug etc....	12.00
	add 10 % C.P.	9.60
	D.S.R. Labour charges as per item no. 7-2-16	20.00
Total Rs.		125.60

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.	Rs.
	I.N. 5-3-3/94 A) SPMCB 6 Amp: - 1 No @ 164	164.00
	I.N.5-4-22/97 B) 1.25 mm. CRCA sheet metal enclosure.with 10	765.00
	I.N. 5-4-23/97 C) CRCA sheet metal one way enclosure ... 1 No.	361.00
Total Rs.		1290.00

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	Rs.
	A) PVC unarmoured cable 3 core 1.5 sq.mm(13x52)	876.00
	M.R. B) M.S. Box epoxy coated (2 way) 4"x4"	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 (2x45).....	95.00
	Total	876.00
	Add 10% C.P.	87.60
	M..R. F) Labour charges (20 x13)	260.00
Total Rs.		1223.60

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. CM/ENR/MCRDB	Rs.
	I.N. 5-4-1/96 A) TPN MCB & Newtral Diatribution board 12 ways ... 1 No	1775.00
	I.N. 5-3-15/94 B) TPNMCB 40 A to 63 A 1 No....	977.00



RATE ANALYSIS

ESTIMATE FOR CONSTRUCTION OF MACHINERY SHED

ELECTRICAL WORK

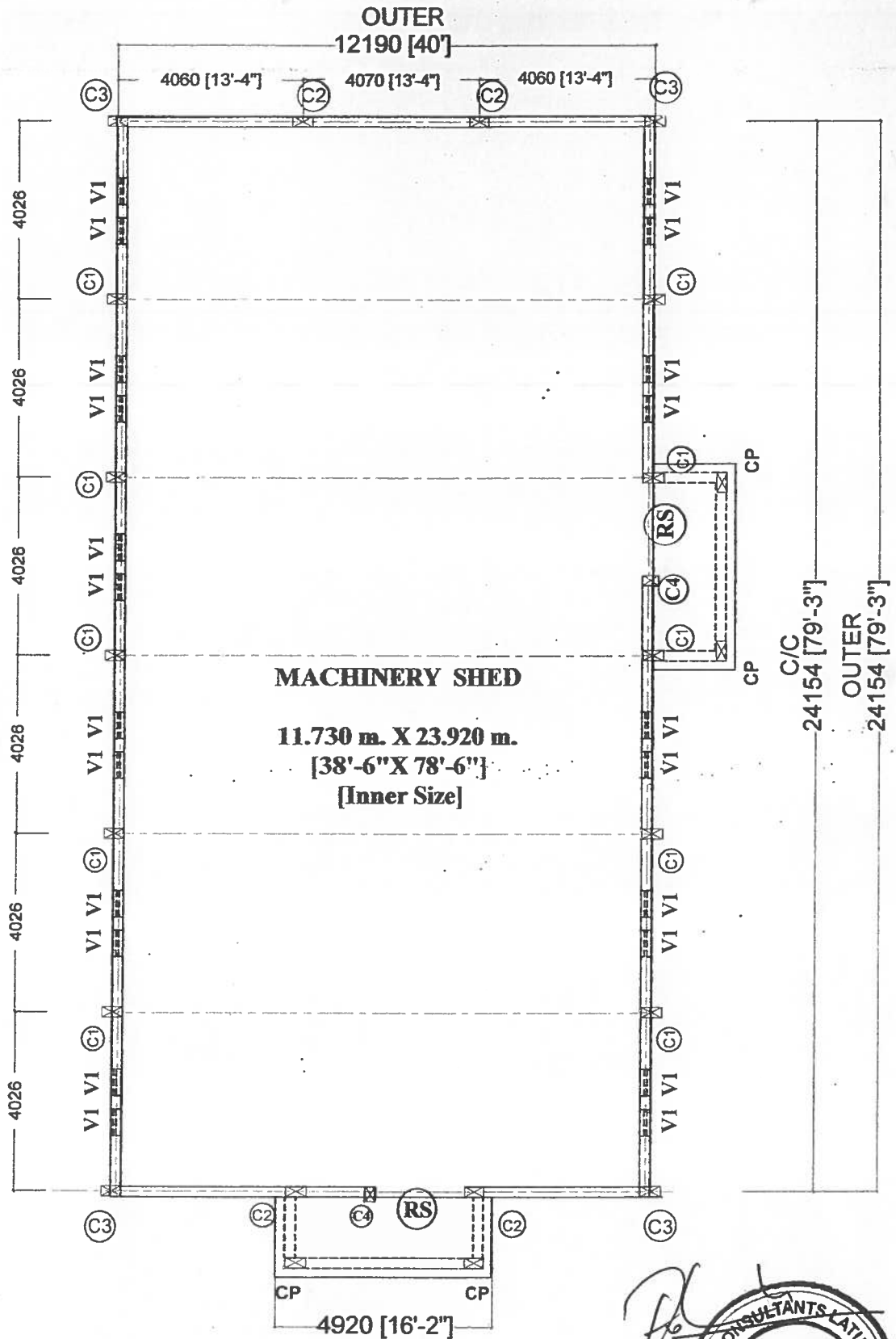
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @ 0.25 m C/C & rigidly grouted in the wall with the help of plated screws. I.N. 5-3-2/94 C) Single pole MCB 6 A to 32 A 12 Nos. @ RS.165/-No.	Rs. 1980.00
Total Rs.		4732.00
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 I.N. 2-2-1/31 A) Shockproof hand lamp 1 No. I.N. 2-10-12/40 B) LED lamp 10/12W..... 1 No. M.R. C) 3 core 1.50 Sq.mm flexible cord 20 Rmt. @ Rs.50 /-	Rs. 164.00 309.00 1000.00
Add 10% C.P. on (C)		100.00
Total Rs.		1573.00
24	Supplying and erecting Street light bracket made from 25mm. dia_B' class G.I.Pipe, 0.6m in length along with pole cap of 300mm length and 80 mm dia duly welded with provided leads as per specification no. EG-RKT/RPC I.N. 1-3-3/5 A) 2x2.5 sq.mm copper wire 2 Rmt. @ Rs.57 I.N. 1-7-12/12 B) Combined switch & socket 13 A 1 No. @ Rs.136 I.N. 1-2-9/5 C) PVC Casing capping 20 mm 6 Rmt. @ Rs.36.00	Rs. 114.00 136.00 216.00
Total Rs.		466.00
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.	Rs.
I.N. 1-3-3/5 A) 2x2.5 sq.mm copper wire @ Rs.57 I.N. 1-3-1/5 B) 2x1.5 sq.mm. copper wire @ Rs.38 I.N. 1-2-9/4 C) PVC Casing capping 20 mm @ Rs.36		57.00 38.00 36.00
Total Rs.		131.00
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.	Rs.
I.N. 1-3-5/5 A) 2x4.00 sq.mm copper wire @ Rs.78.00 I.N. 1-3-1/6 B) 1x1.5 sq.mm. copper wire @ Rs.38.00 I.N. 1-2-10/4 C) PVC Casing capping 25 mm @ Rs.38.00		78.00 38.00 38.00
Total Rs.		154.00



(Handwritten Signature)
Architect/ Engineer

Er. Anant V. Gade
 D.C.E., B.E. Civil, B.A., B.G.L., LL.B.,
 PG.D.H.R.D., PG.D. Envir. Sci., PG.D. Val.,
 PG. D.I.S. & S.M., PG.G.D.C. & A., M.A. Socio.
 LL.M., PG.D. Guid. & Conus., (M.B.A.)
 Architectural Consultant and
 Govt. Regd. Valuer

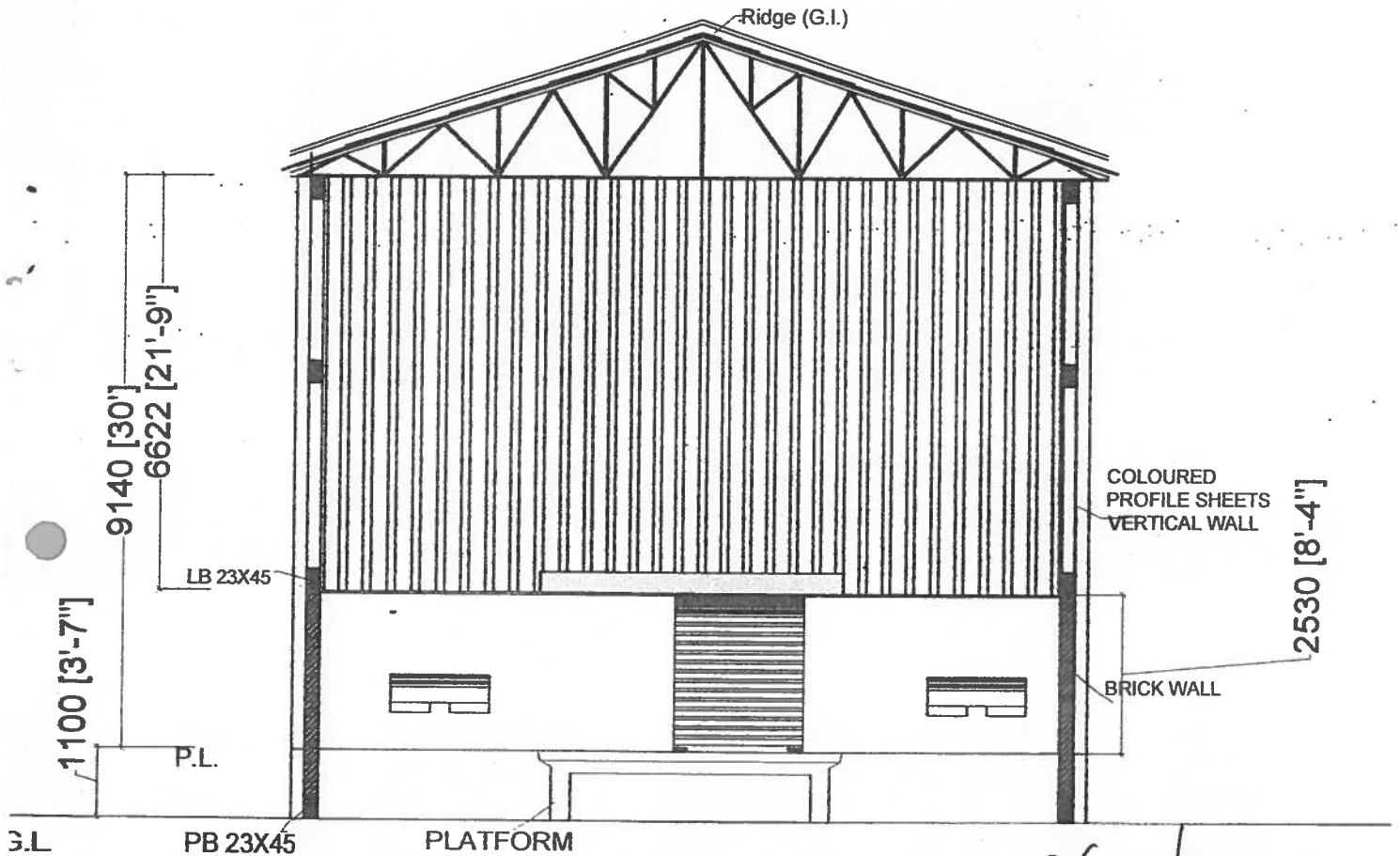
288



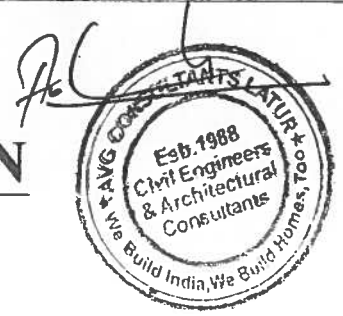
PLAN
SHED FOR SEED GRADING
MACHINERY UNIT



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SECTIONAL ELEVATION



SCHEDULE OF R.C.C. COLUMNS FOR MAIN GODOWN (A):

TYPE	SIZE	NO./S	REMARK
C1	30X45	10	@ Long Walls
C2	30X45	4	@ Gable Walls
C3	30X45	4	@ Gable Walls _corners
C4 @ S-Shutter	23X35	2	To be posted on D.B. @ R.S. Panels
CP	57X30	4	For PLATFORM below Beam

SCHEDULE OF ROLLING SHUTTERS AND VENTILATORS (FOR MACHINERY SHED):

TYPE	SIZE (IN CMS.)	NO./S	DESCRIPTION
R.S.	210X250	02	PULL AND PUSH TYPE FIXED FROM INSIDE STEEL ROLLING SHUTTERS REF- SPECIFICATION
V1	60X60	22	STEEL VENTILATORS FULLY GLAZED WITH SHUTTERS (BOX HINGED) 6 MM. SQUARE MESH 18 SWG. TO BE FIXED BY 19MM X 3MM M.S. FLAT AND 12 MM SQUARE BARS (7 NOS.) IN VERTICAL POSITION @ 10 CM C/C FIXED TO FRAME FROM OUTSIDE.

AREA STATEMENT:

TOTAL LAND AREA AS PER LEASE AGREEMENT/ UNDER PROJECT:	4046.81 SQMTR. (1.00 Acre)
PROP. B/UP AREA:	
SEED GRADING GODOWN:	314.42 SQMTR.
TOTAL B/UP AREA:	314.46 SQMTR. (3384.82 Sqm)



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