

ESTIMATE

NAME OF WORK:- PROPOSED CONSTRUCTION OF 1 / 1500 MT CAPACITY 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. TO. LATUR.

ESTIMATED COST :-

Rs,	160.48	LAKHS	INCL. GST
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Prepared By:

AVG CONSULTANTS (ESTB.1988)

Ar. Shruti Anant Gade

B. Arch. , M.Arch.
(Sustainable Architecture)

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GENERAL ABSTRACT OF ESTIMATE

(BASED ON PWD SSR 2021-22)

PARTICULARS	UNIT	AMOUNT	COST/MT.	COST PER UNIT
S.W.I W.H.BUILDING 1/1500 MT.	902.92	7042794.00	4695.196	7800.02
Above Plinth (P.E.B. W.H. structure)	863.35	4423550.00	2949.033	5123.70
Total Cost of 1500 MT. Warehouse	₹	11466344.00	7644.23	12699.18
S.W.II Internal Bituminous Roads	553.735	1196000.00		2159.88
S.W.III Electrification	1500	137000.00		91.33
S.W.IV Roayalty Charges		463000.00		
Tender Cost	₹	13262344.00	8841.563	14688.28
Add for Contigencies	3%	397870.32		
Add for GST	18%	2387221.92		
GRAND TOTAL COST RS.		16047436.24	8915.242	17772.82
	SAY ₹	16,048,000.00		



Engineer/ Architect

AVG
Er. Anant V. Gade

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FACE SHEET

The Work Construction of Warehouse, Internal Roads, Electrification, etc. at Tandulwadi, Tq. And Dist. Latur has been Proposed by M/s. Shivmalhar Agro Producer Co. Ltd.

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.

Subwork I : WARE HOUSE

- 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 Washable 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.



Engineer/ Architect

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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.**

GENERAL ABSTRACT [SUBWORK I]

(A) COST OF WORK PORTION (Incl. Q.C. Testing Charges)	Rs.	11466344.00
TOTAL	Rs.	11466344.00
SAY	Rs.	11467000.00



Engineer/ Architect

(Handwritten Signature)

Er. Anant V. Gade

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ABSTRACT [Subwork -I]

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	130.027	193.00	Cu.M.	25095.00
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	40.365	212.00	Cu.M.	8557.00
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	53.820	291.00	Cu.M.	15662.00
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	103.341	5842.03	Cu.M.	603721.00



ABSTRACT [Subwork -I]

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 balling 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</p> <p>SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230</p> <p>RATE ANALYSIS</p>	44.798	6755.26	Cu.M.	302622.00
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</p> <p>SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232</p> <p>RATE ANALYSIS</p>	17.923	12444.16	Cu.M.	223037.00
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</p> <p>SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234</p> <p>RATE ANALYSIS</p>	48.317	11090.56	Cu.M.	535863.00



ABSTRACT [Subwork -I]

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 SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239 RATE ANALYSIS</p>	1.714	12555.76	Cu.M.	21521.00
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 VSI Bd.F.10 Page No. 304 SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240 RATE ANALYSIS</p>	2.025	12714.28	Cu.M.	25746.00
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 SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.241 RATE ANALYSIS</p>	9.900	12579.16	Cu.M.	124534.00



ABSTRACT [Subwork -I]

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 SSR OF 2021-22 ITEM NO. 26.33 & PAGE NO.245 RATE ANALYSIS</p>	14.078	71943.55	M.T.	1012821.00
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 SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254 RATE ANALYSIS</p>	75.812	8067.26	Cu.M.	611595.00
13	<p>Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete. Bd.A.10 Page No. 262 SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.201 BASIC RATE</p>	94.185	113.00	Cu.M.	10643.00
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. Bd.A.11 Page No. 263 SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.201 RATE ANALYSIS</p>	740.664	728.55	Cu.M.	539611.00
15	<p>Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ort rraming watering etc. complete As directed by Engineer in charge. SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201 RATE ANALYSIS</p>	250.733	1735.65	Cu.M.	435185.00
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 Bd.G.5 Page No. 315 SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254 RATE ANALYSIS</p>	92.322	8294.26	Cu.M.	765743.00
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 Bd.L.4 Page No. 368 SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.268</p>				



ABSTRACT [Subwork -I]

181

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	RATE ANALYSIS	312.630	395.94	Sq.M.	123783.00
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	417.937	648.30	Sq.M.	270949.00
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	31.620	5150.00	Sq.M.	162843.00
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	21.000	4310.00	Sq.M.	90510.00
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 brushing & brooming down Bd. P. I Page No. 411</p> <p>SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290</p>				
	BASIC RATE	730.567	11.00		



ABSTRACT [Subwork -I]

182

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>	312.630	43.00	Sq.M.	13443.00
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>	417.937	97.00	Sq.M.	40540.00
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 material should have coil manufacturers product 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 M20 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>	822.960	1064.00	Sq.M.	875629.00
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>2.31/24</p>	3291.840	19.00	Sq.M.	62545.00



ABSTRACT [Subwork -I]

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.	900.360	27.00	Sq.M.	24310.00
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	594.624	89.18	Kg.	53029.00
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 burried in specially prepared earthpits 1.5metre below ground level with 40kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mmdia 2meter length burried in earth upto earthing plate remaining portion above ground level	18.000	2132.00	Rgmtr.	38376.00
TOTAL(A) Rs.					7027044.00
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 Vigilance & 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



ABSTRACT [Subwork -I]

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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Total Testing Charges 15750.00

Total of Main Building with Testing Charges

7042794.00

PARTR-B: PEB STRUCTURE

1	Above Plinth PEB Structure - providing & erecting PEB structure with zincallume sheets etc.complete. M D	863.350	5000.00	Rgtr.	4316750.00
2	Providing and erecting turbo ventilator 44 42 /374 supply 8680.00+ 1000.00 fixing + 1000.00 polycarbonate = Total Rate 10680	10.000	10680.00	Rgtr.	106800.00

Total of PEB STRUCTURE 4423550.00

GRAND TOTAL

11466344.00

SAY RS. 11467000.00



(Handwritten Signature)

ENGINEER / ARCHIT

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MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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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 7 X 1.50 X 1.70 X 0.750 =	26.775
C2	2 X 4 X 1.50 X 1.80 X 0.750 =	16.200
C3	2 X 2 X 1.50 X 1.80 X 0.750 =	8.100
CP (for Platforms)	2 X 4 X 1.50 X 1.80 X 0.750 =	16.200

FOR PLINTH PROTECTION

	1 X 2 X 23.48 X 0.60 X 0.300 =	8.453
	1 X 2 X 39.95 X 0.60 X 0.300 =	14.382
For Rain water GUTTER	1 X 2 X 23.48 X 0.60 X 0.600 =	16.906
	1 X 2 X 39.95 X 0.60 X 0.600 =	0.720

FOR EXTERNAL PLINTH BEAM

	2 X 2 X 4.82 X 0.38 X 0.450 =	3.297
	2 X 7 X 4.80 X 0.38 X 0.450 =	11.491
	2 X 5 X 4.39 X 0.38 X 0.450 =	7.503

TOTAL QUANTITY	130.027
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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 7 X 1.50 X 1.70 X 0.450 =	16.065
C2	2 X 4 X 1.50 X 1.80 X 0.450 =	9.720
C3	2 X 2 X 1.50 X 1.80 X 0.450 =	4.860
CP (for Platforms)	2 X 4 X 1.50 X 1.80 X 0.450 =	9.720

TOTAL QUANTITY	40.365
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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.

Subwork-I : Ware House

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 7	X 1.50	X 1.70	X 0.600	= 21.420
	C2	2 X 4	X 1.50	X 1.80	X 0.600	= 12.960
	C3	2 X 2	X 1.50	X 1.80	X 0.600	= 6.480
	CP (for Platforms)	2 X 4	X 1.50	X 1.80	X 0.600	= 12.960
TOTAL QUANTITY						53.820
						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 7	X 1.50	X 1.70	X 0.100	= 3.570
	C2	2 X 4	X 1.50	X 1.80	X 0.100	= 2.160
	C3	2 X 2	X 1.50	X 1.80	X 0.100	= 1.080
	CP (for Platforms)	2 X 4	X 1.50	X 1.80	X 0.100	= 2.160
	FOR Rain water Gutter	1 X 2	X 24.34	X 0.60	X 0.100	= 2.921
		1 X 2	X 39.95	X 0.60	X 0.100	= 4.794
	FOR PLINTH PROTECTION	1 X 2	X 23.14	X 0.60	X 0.100	= 2.777
		1 X 2	X 39.95	X 0.60	X 0.100	= 4.794
	FOR BELOW GROUND BEAMS	2 X 2	X 4.82	X 0.38	X 0.100	= 0.733
		2 X 7	X 4.80	X 0.38	X 0.100	= 2.554
		2 X 5	X 4.39	X 0.38	X 0.100	= 1.667

FOR BEDDING BELOW TRIMIX FLOORING

1 X 1	X 42.90	X 21.60	X 0.080	= 74.131
TOTAL QUANTITY				103.341

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.

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

FOR COLUMN FOOTING-bottom base

	TYPE- C1	2 X 7	X 1.20	X 1.40	X 0.500	= 11.760
	C2	2 X 4	X 1.20	X 1.40	X 0.500	= 6.720
	C3	2 X 2	X 1.20	X 1.50	X 0.600	= 4.320
	CP (for Platforms)	2 X 4	X 1.20	X 1.50	X 0.350	= 5.040



MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	FOR COLUMN FOOTING-bottom base					
	TYPE- C1	2 X 7	X 0.75	X 0.95	X 0.700	= 6.983
	C2	2 X 4	X 0.75	X 0.95	X 0.700	= 3.990
	C3	2 X 2	X 0.75	X 1.05	X 0.900	= 2.835
	CP (for Platforms)	2 X 4	X 0.75	X 1.05	X 0.500	= 3.150
TOTAL QUANTITY						44.798
						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 7	X 0.30	X 0.45	X 1.600	= 3.024
	C2	2 X 4	X 0.30	X 0.45	X 1.600	= 1.728
	C3	2 X 2	X 0.30	X 0.45	X 1.600	= 0.864
	CP (for Platforms)	2 X 4	X 0.30	X 0.57	X 1.500	= 2.052
FOR COLUMN ABOVE PLINTH						
	TYPE- C1	2 X 8	X 0.30	X 0.45	X 2.500	= 5.400
	C2 AT GABLE WALL - AVG HT. 2.5MTR.	2 X 4	X 0.30	X 0.45	X 2.500	= 2.700
	C3	2 X 2	X 0.30	X 0.45	X 2.500	= 1.350
	C4 (at Shutter above DB)	1 X 4	X 0.23	X 0.35	X 2.500	= 0.805
TOTAL QUANTITY						17.923
						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 8	X 4.50	X 0.35	X 0.450	= 11.340
	@ Gable wall/ short wall	2 X 5	X 4.08	X 0.35	X 0.450	= 6.426
	Beams @ platform	2 X 4	X 1.20	X 0.30	X 0.450	= 1.296
		2 X 2	X 3.33	X 0.30	X 0.450	= 1.798
	Shutter beams	1 X 4	X 5.10	X 0.30	X 0.450	= 2.754
	Beams DB	2 X 2	X 4.82	X 0.34	X 0.300	= 1.967



188

MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
		2 X 5 X	4.80 X	0.34 X	0.300 =	4.896
		2 X 5 X	4.39 X	0.34 X	0.300 =	4.476
	Beam- EB (Roof level top binder beams)	1 X 2 X	39.95 X	0.23 X	0.300 =	5.513
		1 X 2 X	21.71 X	0.23 X	0.300 =	2.996
	Lintel over Ventilator V-1	2 X 14 X	1.70 X	0.34 X	0.300 =	4.855
TOTAL QUANTITY						48.317

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 X 14 X 1.70 X 0.45 X 0.080 = 1.714

TOTAL QUANTITY **1.714**

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

1 X 60 X 0.60 X 0.45 X 0.125 = 2.025

TOTAL QUANTITY **2.025**

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 reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) **with fully automatic micro**

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

For Platform

1 X 4 X 5.50 X 1.80 X 0.250 = 9.900

TOTAL QUANTITY **9.900**



MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	E	B	D	QUANTITY
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Cu.M.

- 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	= 4.480
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...COLUMNS	= 2.151
QUANTITY REQUIRED 120KG/Cu.M. OF RCC...BEAM/LINTELS	= 6.281
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CHHAJJA	= 0.171
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CANOPY	= 0.203
QUANTITY REQUIRED 80KG/Cu.M. OF RCC...SLAB/STEPS	= 0.792

TOTAL QUANTITY 14.078

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 out joints on exposed faces and watering etc.

SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254

IN PLINTH-- Long walls

Short walls

For Rainwater gutter

2 X 8 X 4.50 X 0.34 X 1.000 =	24.480
2 X 5 X 4.07 X 0.34 X 1.000 =	13.838
2 X 2 X 39.35 X 0.10 X 0.600 =	9.444
2 X 2 X 23.14 X 0.10 X 0.600 =	5.554
2 X 2 X 39.35 X 0.60 X 0.150 =	14.166
2 X 2 X 23.14 X 0.60 X 0.150 =	8.330

TOTAL QUANTITY 75.812

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

QUANTITY SAME AS PER ITEM NO.3

= 40.365

= 53.820

TOTAL QUANTITY 94.185

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 38.10 X 21.60 X 0.900 = 740.664

TOTAL QUANTITY 740.664

Cu.M.

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

SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201

FOR BELOW FLOORING

For plinth Protection

1 X 1 X 38.10 X 21.60 X 0.250 = 205.740

1 X 2 X 23.14 X 0.60 X 0.600 = 16.520

1 X 2 X 39.35 X 0.60 X 0.600 = 28.330



MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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TOTAL QUANTITY **250.733**
Cu.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

SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254
FOR SUPER STRUCTURE (Below DB/ Shutter top)

	2 X 8 X 4.50 X 0.34 X 2.500 =	61.200
	2 X 5 X 4.07 X 0.34 X 2.500 =	34.595
- Above EB	1 x 1 x 139.96 X 0.23 X 0.300 =	9.657
for Parapet wall	1 X 2 X 23.00 X 0.45 x 0.230 =	4.761
DEDUCTION - Shutters	-1 X 4 X 2.10 X 0.34 X 2.500 =	-7.140
Ventilators- V1	-1 X 28 X 0.60 X 0.34 X 0.600 =	-3.427
Ventilators- V2	-1 X 32 X 1.00 X 0.34 X 0.600 =	-6.528
ventilators-V3 [at shutter bays]	-1 X 4 X 1.30 X 0.34 X 0.450 =	-0.796
	TOTAL QUANTITY	92.322

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 38.10 X 3.25 =	247.650
	1 X 2 X 21.60 X 3.25 =	140.400
Deductions		
-Shutter	-1 X 4 X 3.00 X 3.65 =	-43.800
Ventilators- V1	-1 X 28 X 0.60 X 0.60 =	-10.080
Ventilators- V2	-1 X 32 X 1.00 X 0.60 =	-19.200
ventilators-V3 [at shutter bays]	-1 X 4 X 1.30 X 0.45 =	-2.340
	TOTAL QUANTITY	312.630

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 38.75 X 3.95 =	306.125
	1 X 2 X 22.28 X 3.95 =	176.012
DEDUCTION		
	-1 X 4 X 2.10 X 2.50 =	-21.000
	-1 X 28 X 1.20 X 0.60 =	-20.160
	-1 X 32 X 1.20 X 0.60 =	-23.040
	TOTAL QUANTITY	417.937

Sq.M.



MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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					
	SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317					
	FOR WINDOWS/-VENTILATORS.. V1	1	28	0.60	0.60	= 10.080
	V2	1	32	1.00	0.60	= 19.200
	V3	1	4	1.30	0.45	= 2.340
TOTAL QUANTITY						31.620
						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	4	2.10	2.50	= 21.000
TOTAL QUANTITY						21.000
						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					= 312.630
	QUANTITY SAME AS PER ITEM NO.18					= 417.937
TOTAL QUANTITY						730.567
						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					= 312.630
TOTAL QUANTITY						312.630
						Sq.M.



MEASUREMENT SHEET.

Subwork-I : Ware House

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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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

= 417.937

TOTAL QUANTITY 417.937

Sq.M.

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

SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302

provision

1 X 1 X . X = 1.000

TOTAL QUANTITY 1.000

Sq.M.

25 Providing and **laying in situ cement concrete M20 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 38.10 X 21.60 = 822.960

TOTAL QUANTITY 822.960

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 21.60 X 38.10 = 3291.840

TOTAL QUANTITY 3291.840

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 ware house

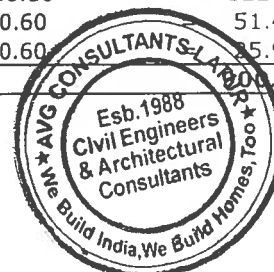
For metal in plinth along periphery

1 X 1 X 21.60 X 38.10 = 822.960

1 X 2 X 42.90 X 0.60 = 51.480

1 X 2 X 21.60 X 0.60 = 35.920

TOTAL QUANTITY 900.360



MEASUREMENT SHEET.

Subwork-I : Ware House

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

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 4 X 4.92 X 16.80 kg/m = 330.624

1 X 4 X 24.00 X 0.60 x 2.500 = 144.000

= 120.000

TOTAL QUANTITY	594.624
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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 embeded in cement concrete 1:3:6 foundation of size 45cm diamx 45cm Height and providing earthing with copper earthplate of size 60x60x0.3cms with cadmium plated nutbolts to fix earthing strip burried in specially prepared earthnits 1.5metre below ground level with 40kn

1 X 1 X 18.00 = 18.000

TOTAL QUANTITY	18.000
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Rg.mtr.

PART-B : PEB STRUCTURE

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

1 X 1 X 22.28 X 38.75 = 863.350

TOTAL QUANTITY	863.350
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Sq.M.

2 Turbo ventilator 24"

2 X 5 = 10.000

TOTAL QUANTITY	10.000
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Nos.



Handwritten signature of Er. Anant V. Gade

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 1 / 1500 MT CAPACITY 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. (BASIC RATES AS PER SSR 2021-22)

Subwork I: WARE HOUSE

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	445.70
	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	293.7988
	@ADD DIFF.COST FOR 20MM METAL	0.24000	-96.00	



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

Subwork I: WARE HOUSE

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
	TOTAL			6491.14
	DEDUCT 10% FOR SCADA			-649.11
	TOTAL RATE Rs.			5842.03 PerCu.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) VST			
	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
	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			
	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
	TOTAL RATE Rs.			12444.16 PerCu.M.



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

Subwork I: WARE HOUSE

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
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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, compactionand 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)

Subwork I: WARE HOUSE

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
				13222.93
	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
				13076.93
	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			13976.84
	DEDUCT 10% FOR SCADA			-1397.68
	TOTAL RATE Rs.			12579.16 PerCu.M.



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

Subwork I: WARE HOUSE

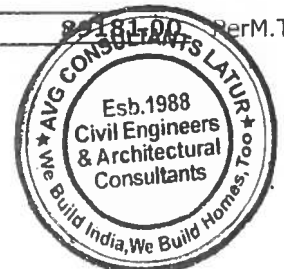
SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
11	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed 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, rraming, 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.



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

Subwork I: WARE HOUSE

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
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. 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
				7524.77
	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.			8294.26 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
				355.47
	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.			395.94 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 days. 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
				594.34
	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.			648.30 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 surface. BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 23.01 & PAGE NO.223			89181.00
	TOTAL RATE Rs.			89181.00 PerM.T.



200

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

Subwork I: WARE HOUSE

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 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 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.



201

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

Subwork I: WARE HOUSE

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 M20 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

ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND
@ADD DIFF.COST FOR SAND
ADD LEAD CHARGES FOR CR METAL
@ADD DIFF.COST FOR CR METAL

0.08500	141.34	-12.01
		1366.99
0.08000	165.55	-13.24
0.08500	947.37	80.53
0.08500	625.00	53.13
0.17000	300.37	51.06
0.17000	-96.00	-16.32

TOTAL RATE Rs. 1548.63 PerSq.M.



Engineer/ Architect

Handwritten signature of Er. Anant V. Gade

Er. Anant V. Gade

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 PG.D.H.R.D., PG.D. Envir.Scl., 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

202

NAME OF WORK:- PROPOSED CONSTRUCTION OF 1 / 1500 MT CAPACITY 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.

DIFF.COST OF MATERIAL

SR NO.	MATERIAL	RATE AS PER SSR OF 2021-22	MARKET RATE	EXCESS	LESS	REMARKS/ EFFECTIVE DATE
1	SAND	1575.00	2200.00	625.00	0.00	Rate As On
2	20MM METAL	996.00	900.00	-96.00	0.00	Rate As On
3	12MM METAL	996.00	900.00	96.00	0	Rate As On
4	MURUM-HARD	288.00	280.00	-8.00	0.00	Rate As On
5	GRIT	800.00	820.00	20.00	0.00	Rate As On



Engineer/ Architect

[Handwritten Signature]

Er. Anant V. Gade

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LL.M., PG.D.Guid. & Conus., (M.B.A.)
Architectural Consultant and
Govt. Regd. Valuer

NAME OF WORK:- PROPOSED CONSTRUCTION OF 1 / 1500 MT CAPACITY 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.

LEAD CHART

SR.N O.	MATERIAL	TYPE OF MATERIAL	LOCATION OF QUARRY	LEAD IN KM.	LEAD CHARGES	INITIAL LEAD CHARGES	NET LEAD CHARGES
1	CEMENT	MANUAL	LATUR	10.00	165.55	0.00	165.55
2	SAND	RIVER	GANGAKHED	80.00	947.37	0.00	947.37
3	CR METAL	MACHINE	CHINCHOLIRAO WADI	12.00	300.37	0.00	300.37
4	40MM METAL CB	MACHINE	CHINCHOLIRAO WADI	12.00	278.70	0.00	278.70
5	STEEL	MANUAL	LATUR	10.00	165.55	0.00	165.55
6	BRICKS PER 1000 Nos	MANUAL	CHINCHOLIRAO WADI	8.00	533.16	0.00	533.16
7	MURUM-HARD	MACHINE	LOCAL	3.00	186.55	0.00	186.55
8	SOLING	MACHINE	CHINCHOLIRAO WADI	12.00	367.47	0.00	367.47
9	GRIT	MACHINE	CHINCHOLIRAO WADI	8.00	287.86	0.00	287.86



Engineer/ Architect

AVG

Er. Anant V. Gade

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LL.M., PG.D.Guid.& Conus., (M.B.A.)
Architectural Consultant and
Govt. Regd. Valuer

NAME OF WORK:- PROPOSED CONSTRUCTION OF 1 / 1500 MT CAPACITY 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.

MATERIAL SUMMARY

SR.NO.	MATERIAL	TOTAL QUANTITY	QUANTITY OF ROYALTY	REMARKS
1	CEMENT	166.945	-	
2	SAND	256.796	256.796	
3	CR METAL	287.140	-	
4	40MM METAL CB	72.339	-	
5	STEEL	14.078	-	
6	BRICKS	79.864	-	
7	MURUM-HARD	740.664	740.664	
8	SOLING	250.733	250.733	
9	GRIT	37.610	-	



Engineer/ Architect

AN

Dr. Anant V. Gade

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 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 : SHYMALHAR AGRO PRODUCER COMPANY LTD., TANDULWADI, TQ. LATUR.

OTHER MATERIAL COMPONENTS

Sr No.	Item Of Work	Quantity	CEMENT		SAND		CR METAL		40MM METAL CB		STEEL		BRICKS		MURUM-HARD		SOLING		GRIT		
			Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.
1	2 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including balling out water, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing. SSR OP 2019-20 ITEM NO. 24.01 & PAGE NO.226	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
1		103.341	0.22000	22.735	0.47000	48.570	0.24000	24.802	0.70000	72.339											
2	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 balling out water, formwork, laying/pumping cover blocks, compaction and curing as per detailed designs and drawings or as directed including centering, SSR OP 2019-20 ITEM NO. 24.11 & PAGE NO.230	44.798	0.35000	15.679	0.42500	19.039	0.85000	38.078													
3	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, SSR OP 2019-20 ITEM NO. 24.31 & PAGE NO.232	17.923	0.35000	6.273	0.42500	7.617	0.85000	15.235													
4	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 SSR OF 2019-20 ITEM NO. 25.5 & PAGE NO.234	48.317	0.35000	16.911	0.42500	20.535	0.85000	41.069													
5	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 SSR OF 2019-20 ITEM NO. 26.05 & PAGE NO.239	1.714	0.35000	0.600	0.42500	0.728	0.85000	1.457													




205

Sr No.	Item Of Work	Quantity	CEMENT		SAND		CR METAL		40MM METAL CB		STEEL		BRICKS		MURUM-HARD		SOLING		GRIT	
			Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
13	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 2019-20 ITEM NO. 32.06 & PAGE NO. 218	312.630	0.00700	2.188	0.02500	7.816														
14	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 sqm SSR OF 2019-20 ITEM NO. 32.11 & PAGE NO. 219	417.937	0.01250	5.224	0.03300	13.792														
15	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 2019-20 ITEM NO. 32.11 & PAGE NO. 219	822.960	0.09700	79.827	0.09700	79.827	0.19000	156.362												

TOTAL: 166.945 256.796 287.140 72.339 14.078 79.864 740.664 250.733 37.610

Quantity	CEMENT		SAND		CR METAL		40MM METAL CB		STEEL		BRICKS		MURUM-HARD		SOLING		GRIT	
	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.	Cons.	Qty.


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



G.W. II

208

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.

ABSTRACT (ROADS)

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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. (Speci. / Page No. : 2.11/23)	332.241	104	Cum.	34553.00
2	Picking the Road surface including sectioning etc. complete. (WBM Surface) (Speci. / Page No. : 2.32/25)	0.000	28	Sqm.	0.00
3	Excavation for roadway in hard murum and boulders including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts. (Speci. / Page No. : 2.13/23)	221.494	121	Cum.	26801.00
4	Excavation for roadway in soft Rock including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts. (Speci. / Page No. : 2.14/23)	1.000	157	Cum.	157.00
5	Excavation for roadway in soft Rock including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts. (Speci. / Page No. : 2.125/23)	1.000	250	Cum.	250.00
6	Providing soling using 80mm size trap metal in 15cm. Layer including filling voids with Crushed sand/grit, ramming, watering etc. complete. (Speci. / Page No. : 21.40/118)	127.359	1322	Cum.	168369.00
7	Supplying 80 mm size trap stone metal at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 50.56/250)	109.641	700	Cum.	76749.00
8	Supplying 40 mm size trap stone metal at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 50.55/250)	73.094	780	Cum.	57013.00
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete. (Speci. / Page No. : 50.58/250)	127.359	85	Cum.	10826.00
10	Spreading 80 mm trap stone metal including sectioning as directed etc. complete. (Speci. / Page No. : 50.58/250)	109.641	85	Cum.	9319.00



ABSTRACT

209

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
11	Supplying Hard murum / Kankar at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 2.29 A/ 24)	46.006	398	Cum.	18310.00
12	Spreading Hard murum / Kankar at the Road side width complete. (Speci. / Page No. : 2.30/24)	46.006	74	Cum.	3404.00
13	Compacting Oversize metal layer with H.M. with power roller including artificial watering and necessary labour etc. complete. (Speci. / Page No. : 50.59/250)	1661.205	27	Sqm.	44853.00
14	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering and necessary labour etc. complete. (Speci. / Page No. : 2.31/24)	42.595	19	Sqm.	809.00
15	Providing and constructing 75mm. thick Modified Penetration Macadam(MPM)road surface including all materials, preparing the existing road surface, spreading 40mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/ SquareMetre, spreading 12mm. size chips compacting with three wheel static roller having weight 8 to 10MT. to achive the desired degree of compaction as per Technical Specification Clause	553.735	223.14	Sqm.	123560.00
16	Providing and applying tack coat on the prepared surface heating by famesin Boiler and spraying bitumen set footed in bitumen boiler on B.T. surface 2.5kg/10sqm.(VG-30 bulk bitumen rates are considered to arrive at rates) (Speci. / Page No. : R.A.)	639.975	14.73	Sqm.	9427.00
17	Open Graded Premix Surfacing-Providing and Laying OGC 20mm 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 Sealcoat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver	639.975	118.82	Sqm.	76042.00
18	9 MM SEAL COAT: Providing and laying of Type A 9mm premix seal coat with HMP of appropriate capacity crushed stone chiping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to10MT etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	639.975	84.32	Sqm.	53963.00
19	Providing & fixing R.C.C. 1:2:4 guard stones as per type design including painting numbering fixing in std. Size C. C. 1:4:8 block complete. (Speci. / Page No. : 11.27/63)	30.000	963	Nos.	28890.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
Part- II : CROSS DRAINAGE WORKS					
20	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	3.750	193	Cum.	724.00
21	Excavation for foundation in Hard 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	2.500	212	Cum.	530.00
22	Excavation for foundation in Hard 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. to	2.500	403	Cum.	1008.00
23	Excavation for foundation in Hard rock by chiselling, wedging, line drilling etc. , including trimming and levelling the bed, 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.	1.000	1223	Cum.	1223.00
24	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 washed etc)	2.100	5418	Cum.	11378.00
25	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 unexposed faces and watering etc. complete. (Crushed sand VSI Grade)	5.898	4757	Cum.	28057.00



ABSTRACT

211

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
26	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for RCC SLABS AND LANDINGS 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 washed etc) (Speci / Page No. : 25.50/122)	3.120	11363	Cum.	35453.00
27	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	0.655	71778	M.T.	47015.00
28	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 with slurry finish to concrete or brick surface or U.C.R. surface in all positions including scaffolding and curing, smooth slurry finish of 1.5mm. Thickness etc. complete. (Crushed sand VSI Grade) (Speci. / Page No. : 37.07 + 32.01 / 153)	31.580	557	Sq.m.	17590.00
29	Providing flush grooved pointing with cement mortar 1:3 for brickwork including scaffolding and curing etc. complete. (Speci. / Page No. : 32.17/153)	8.800	172	Sq.m.	1514.00
30	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope includeing providing and fixing collars in cement mortar 1:2 and curing etc. complete.	6.000	2678	Rmt.	16068.00
31	Supplying & spreading Hard mumrum for cushioning of RCC pipe including watering, ramming & leveling etc complete. collars in cement mortar 1:2 and curing etc. complete. (Speci. / Page No. : 2.27/24)	8.100	201	Cum.	1628.00
32	Providing and casting insitu/ 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) (Speci. / Page No. : 11.30/63)	1.530	9276	Cum.	14192.00
33	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	7.000	201	Cum.	1407.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
34	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-S attachment to achieve not less than 97% of standard proctor density etc. complete (Material obtained from Other sources) (Speci. / Page No. :2.28/24)	366.402	546	Cum.	200055.00
35	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.to300m. inclusive from the site of excavation to the site of deposition as directed. (Speci. / Page No. :2.25/24)	7.000	177	Cum.	1239.00
36	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.to300m.	332.241	220.6	Cum.	73292.00

Total Amount Rs.
1195668.00

SAY

RS.

1196000.00

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

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.

MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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New Road

South-North Direction... Road Section No. 01	1 X 1 X 51.62 X 6.50	=	335.530
East-west Direction... Road Section No. 02	1 X 1 X 20.03 X 6.50	=	130.195
South North Direction... Road Section No. 03	1 X 1 X 13.54 X 6.50	=	88.010

Total Area = 553.735
Sqmtr.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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- 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.

South-North Direction... Road Section No. 01	1 X 1 X 51.62 X 6.50 X 0.600	=	201.318
East-west Direction... Road Section No. 02	1 X 1 X 20.03 X 6.50 X 0.600	=	78.117
South North Direction... Road Section No. 03	1 X 1 X 13.54 X 6.50 X 0.600	=	52.806

TOTAL QUANTITY 332.241
Cu.M.

- 2 Picking the Road surface including sectioning etc. complete.
(WBM Surface)

= 0.000

TOTAL QUANTITY 0.000
Sqmtr.

- 3 Excavation for roadway in hard murum and boulders including dressing section to the required grade, camber and side slopes and conveying the excavated materials outside the complex including all leads & lifts.

South-North Direction... Road Section No. 01	1 X 1 X 51.62 X 6.50 X 0.400	=	134.212
East-west Direction... Road Section No. 02	1 X 1 X 20.03 X 6.50 X 0.400	=	52.070
South North Direction... Road Section No. 03	1 X 1 X 13.54 X 6.50 X 0.400	=	35.204

TOTAL QUANTITY 221.494
Cu.M.



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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- 4 Excavation for roadway in soft Rock 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
Provison

1.000

TOTAL QUANTITY	1.000
	Cu.M.

- 5 Excavation for roadway in soft Rock 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
Provison

1.000

TOTAL QUANTITY	1.000
	Cu.M.

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

South-North Direction... Road Section No. 01
East-west Direction... Road Section No. 02
South North Direction... Road Section No. 03

1 X 1 X	51.62 X	6.50 X	0.230 =	77.172
1 X 1 X	20.03 X	6.50 X	0.230 =	29.945
1 X 1 X	13.54 X	6.50 X	0.230 =	20.242

TOTAL QUANTITY	127.359
	Cu.M.

- 7 Supplying 80 mm size trap stone metal at the Road side including conveying and stacking etc. complete.

South-North Direction... Road Section No. 01
East-west Direction... Road Section No. 02
South North Direction... Road Section No. 03

1 X 1 X	51.62 X	6.50 X	0.150 =	50.330
1 X 1 X	20.03 X	6.50 X	0.150 =	19.529
1 X 1 X	13.54 X	6.50 X	0.150 =	13.202

Total	83.061
	26.580

Add 32 % for Voids

TOTAL QUANTITY	109.641
	Cu.M.

- 8 Supplying 40 mm size trap stone metal at the Road side including conveying and stacking etc. complete.

South-North Direction... Road Section No. 01
East-west Direction... Road Section No. 02
South North Direction... Road Section No. 03

1 X 1 X	51.62 X	6.50 X	0.100 =	33.553
1 X 1 X	20.03 X	6.50 X	0.100 =	13.020
1 X 1 X	13.54 X	6.50 X	0.100 =	8.801

Total	55.374
	17.720

Add 32 % for Voids



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
TOTAL QUANTITY						73.094 Cu.M.
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.					
	Quantity as item No. 6					127.359
10	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.					
	Quantity as item No. 7					109.641
TOTAL QUANTITY						109.641 Cu.M.
11	Supplying Hard murum / Kankar at the Road side including conveying and stacking etc. complete.					
	South-North Direction... Road Section No. 01	1 X 1 X	51.62 X	6.50 X	0.050 =	16.777
	East-west Direction... Road Section No. 02	1 X 1 X	20.03 X	6.50 X	0.050 =	6.510
	South North Direction... Road Section No. 03	1 X 1 X	13.54 X	6.50 X	0.050 =	4.401
	For Side Shoulder					
	South-North Direction... Road Section No. 01	1 X 1 X	51.62 X	0.50 X	0.250 =	6.453
	East-west Direction... Road Section No. 02	1 X 1 X	20.03 X	0.50 X	0.250 =	2.504
	South North Direction... Road Section No. 03	1 X 1 X	13.54 X	0.50 X	0.250 =	1.693
	Add 20 % for Compaction					7.668
Total						38.338
TOTAL QUANTITY						46.006 Cu.M.
12	Spreading Hard murum / Kankar at the Road side width complete.					
	Quantity as Item No. 11					46.006
TOTAL QUANTITY						46.006 Cu.M.
13	Compacting Oversize metal layer with H.M. with power roller including artificial watering and necessary labour etc. complete					
	For Rubble Soling					553.735
	For 80mm. Metal					553.735
	For 40 mm metal					553.735
TOTAL QUANTITY						1661.205 Sqm.



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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14	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering and necessary labour etc. complete.					
	South-North Direction... Road Section No. 01	1	X	1	X	51.62 X 0.50 = 25.810
	East-west Direction... Road Section No. 02	1	X	1	X	20.03 X 0.50 = 10.015
	South North Direction... Road Section No. 03	1	X	1	X	13.54 X 0.50 = 6.770

Add 20 % for Compaction

TOTAL QUANTITY	42.595
	Sqmtr.

15 Providing and constructing 75mm. thick Modified Penetration Macadam(MPM)road surface including all materials, preparing the existing road surface, spreading 40mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/ SquareMetre, spreading 12mm. size chips compacting with three wheel static roller having weight 8 to 10MT. to achive the desired degree of compaction as per Technical Specification Clause 506

South-North Direction... Road Section No. 01.	1	X	1	X	51.62	X	6.50	= 335.530
East-west Direction... Road Section No. 02	1	X	1	X	20.03	X	6.50	= 130.195
South North Direction... Road Section No. 03	1	X	1	X	13.54	X	6.50	= 88.010

TOTAL QUANTITY	553.735
	Sqm.

16 Providing and applying tack coat on the prepared surface heating by famesin Boiler and spraying bitumen set footed in bitumen boiller on B.T. surface 2.5kg/10sqm.(VG-30 bulk bitumen rates are considered to arrive at rates)

South-North Direction... Road Section No. 01	1	X	1	X	51.62	X	6.50	= 335.530
East-west Direction... Road Section No. 02	1	X	1	X	20.03	X	6.50	= 130.195
South North Direction... Road Section No. 03	1	X	1	X	13.54	X	6.50	= 88.010
East-west Direction... Road Section No. 04	1	X	1	X	31.36	X	2.75	= 86.240

TOTAL QUANTITY	639.975
	Sq.M.

17 Open Graded Premix Surfacing-Providing and Laying OGC 20mm 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 Sealcoat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver and Vibratory roller (Over MPM Surface) (VG-30bulk



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	For Existing Road and New Road	1		X 639.98		= 639.975
TOTAL QUANTITY						639.975 Sqm.

18 9 MM SEAL COAT: Providing and laying of Type A 9mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to10MT etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)

For Existing Road and New Road	1		X 639.98		= 639.975
TOTAL QUANTITY					639.975 Sqm.

19 Providing & fixing R.C.C. 1:2:4 guard stones as per type design including painting numbering fixing in std. Size C. C. 1:4:8 block complete.

Lumsum Considered	1		X 30.00		= 30.000
TOTAL QUANTITY					30.000 Nos.

Part- II : CROSS DRAINAGE WORKS

20 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

Cross Drainage Works
App. C.D. works Head wall

$$1 \times 2 \times 6.00 \times 1.50 \times 0.150 = 2.700$$

$$1 \times 2 \times 2.00 \times 1.75 \times 0.150 = 1.050$$

TOTAL QUANTITY					3.750 Cum.
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21 Excavation for foundation in Hard 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

Cross Drainage Works
App. C.D. works Head wall

$$1 \times 2 \times 6.00 \times 1.50 \times 0.100 = 1.800$$

$$1 \times 2 \times 2.00 \times 1.75 \times 0.100 = 0.700$$



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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TOTAL QUANTITY **2.500**
Cum.

22 Excavation for **foundation in Hard 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. to 3.00 m.)** By Cross Drainage Works
App. C.D. works Head wall

1 X 2 X 6.00 X 1.50 X 0.100 = 1.800
1 X 2 X 2.00 X 1.75 X 0.100 = 0.700

TOTAL QUANTITY **2.500**
Cum.

23 Excavation for **foundation in Hard rock by chiselling, wedging, line drilling etc.**, including trimming and levelling the bed, 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. to 3.00 m.)** By

= 1.000

TOTAL QUANTITY **1.000**
Cum.

24 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** Cross Drainage Works
App. C.D. works Head wall

1 X 2 X 6.00 X 1.50 X 0.100 = 1.800
1 X 2 X 2.00 X 0.75 X 0.100 = 0.300

TOTAL QUANTITY **2.100**
Cum.

25 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 unexposed faces and watering etc.

Cross Drainage Works
App. C.D. works Head wall

2 X 2 X 6.00 X 0.45 X 0.350 = 3.738
1 X 2 X 2.00 X 0.45 X 1.500 = 1.500



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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TOTAL QUANTITY **5.898**
Cum.

26 Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for **RCC SLABS AND LANDINGS** 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 Slab

1 X 2 X 6.00 X 1.30 X 0.200 = 3.120

TOTAL QUANTITY **3.120**
Cum.

27 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 @ 210 Kgs / Cu.meter.

210.00 X 3.120 = 0.655

TOTAL QUANTITY **0.655**
Mt.

28 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 with slurry finish to concrete or brick surface or U.C.R. surface in all positions including scaffolding and curing, smooth slurry finish of 1.5mm. Thickness etc. complete. (Crushed sand VSI Grade)

Cross Drainage Works
App. C.D. works Head wall

2 X 2 X 6.00 X 1.20 = 28.800
1 X 2 X 2.00 X 0.65 = 2.600
2 X 2 X 0.45 X 0.10 = 0.180

TOTAL QUANTITY **31.580**
Cum.

29 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 = 5.200
2 X 2 X 2.00 X 0.45 = 3.600

TOTAL QUANTITY



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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30 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.

1 X 6 = 6.000

TOTAL QUANTITY	6.000
	Rg. mtr.

31 Supplying & spreading Hard murrum for cushioning of RCC pipe including watering, ramming & leveling etc complete. collars in cement mortar 1:2 and curing etc. complete.

ISNP III Class pipe

1 X 1 X 6.00 X 1.50 X 0.900 = 8.100

TOTAL QUANTITY	8.100
	Cum.

32 Providing and casting insitu/ 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
Above C.C. Pipe

1 X 2 X 2.00 X 0.45 X 0.100 = 0.180
1 X 1 X 6.00 X 1.50 X 0.150 = 1.350

TOTAL QUANTITY	1.530
	Cum.

33 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 = 7.000

TOTAL QUANTITY	7.000
	Cum.

34 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-S attachment to achieve not less than 97% of standard proctor density etc. complete (Material

South-North Direction... Road Section No. 01
East-west Direction... Road Section No. 02

1 X 1 X 51.62 X 6.50 X 0.450 = 150.289
1 X 1 X 20.03 X 6.50 X 0.450 = 58.288



MEASUREMENT SHEET. [SUB WORK II]

Part- I : CROSS DRAINAGE WORKS

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	South North Direction... Road Section No. 03	1 X 2 X	13.54 X	6.50 X	0.450 =	79.209
	East-west Direction... Road Section No. 04	1 X 2 X	31.36 X	2.75 X	0.450 =	77.616
TOTAL QUANTITY						366.402
						Cum.

35 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

Provision = 7.000

TOTAL QUANTITY **7.000**
Cum.

36 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

Quantity as per Item No: 01 = 332.241

TOTAL QUANTITY **332.241**
Cum.



Engineer/ Architect
Er. Anant V. Gade
 D.C.E., B.E. Civil, B.A., B.G.L., L.L.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.

ABSTRACT**(SUB WORK III : 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-	30.000	Running Meter	7-2-16/129	283.00	14.15	297.15	8915.00
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	20.000	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	10.00	Running Meter	16-1-2-/240	156.00	7.80	163.80	1638.00
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	157.00	Running Meter	RA	125.60	6.28	131.88	20705.00
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

223

(SUB WORK III : ELECTRICAL)

SR. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	LN./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 no. FG-025/16	4.00	Number	2-5-2/34	2009.00	100.45	2109.45	8438.00
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	4.00	Number	2-9-4/38	712.00	35.60	747.60	2990.00
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



224
234

ABSTRACT

(SUB WORK III : 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/MCBDB	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	18.00	Running Meter	7-6-1/138	196.00	9.80	205.80	3704.00
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	10.00	Running Meter	7-6-2/138	304.00	15.20	319.20	3192.00
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	24.00	Running Meter	7-6-10/139	227.00	11.35	238.35	5720.00
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection.	6.00	Number	MR	80.00	4.00	84.00	504.00



ABSTRACT

225

(SUB WORK III : 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
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	8.00	Number	7-7-2/139	58.00	2.90	60.90	487.00
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 Amm 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



ABSTRACT

(SUB WORK III : 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
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 III : 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. 136290.00

Say 137000.00



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.Guid & Conus., (M.B.A.)
 Architectural Consultant and
 Govt. Regd. Valuer

228

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.

**SUB-WORK : III
ESTIMATE FOR ELECTRICAL WORK FOR PRE ENGINEERED
WAREHOUSE BLDG.**

**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 30.00 X	1	X	1	= 30.00	Running Meter
						TOTAL QUANTITY	30.00
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 20.00 X	1	X	1	= 20.00	Running Meter
						TOTAL QUANTITY	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-EXNCTR For WH 1700 MT	1 X 1 X 10.00 X	1	X	1	= 10.00	Running Meter
						TOTAL QUANTITY	10.00
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 157 X	1	X	1	= 157.00	Running Meter
						TOTAL QUANTITY	157.00
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



(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

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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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 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 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 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/MCDBB 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 18 X 1 X 1 X 1 = 18.00

TOTAL QUANTITY 18.00

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 10 X 1 X 1 X 1 = 10.00

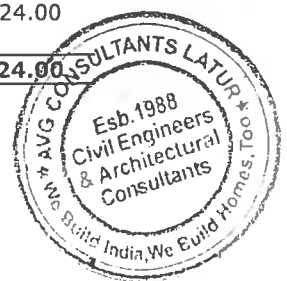
TOTAL QUANTITY 10.00

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 12 X 1 X 1 X 1 = 24.00

TOTAL QUANTITY 24.00

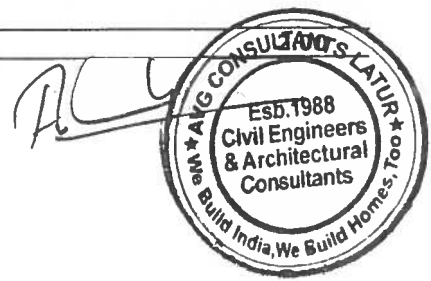
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MEASUREMENT SHEET

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

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	UNIT
20	Supplying & erecting 18 guage M.S. Box powder coated (4"x4") 3 way for For WH 1700 MT	1 X 3 X	2 X	1 X	1	= 6.00	Number
						TOTAL QUANTITY	6.00
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 8 X	1 X	1 X	1	= 8.00	Number
						TOTAL QUANTITY	8.00
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



232

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

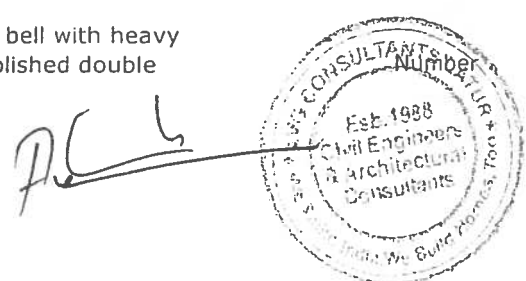
TOTAL QUANTITY **2.00**

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



233

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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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

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 1/1800 MT. CAPACITY PRE ENGINEERED WH BLDG. WITH ANCILLARY WORKS

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 enclosure1 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 mm for street light connection etc. complete as directed by Engineer in charge	Rs.
	A) PVC unarmoured cable 3 core 1.5 sq.mm(13x52)	676.00
	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. 011/011/011/011	Rs.
	I.N. 5-4-1/96 A) TPN MCB & Newtral Dietribution board 12 ways ... 1 No	1775.00
	I.N. 5-3-15/94 B) TPNMCB 40 A to 63 A 1 No....	977.00



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.

Subwork IV : Royalty Charges

S.W.-1: Ware House Work

Sr No.	Item Number and Description of Item.	Execute dQuantl	Quantity of Material for Royalty (Cu.M.)					Metal	Murum	Rubble
			Cement In Bags	Sand						
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.	740.664	0.0	0.0	0.0	0.0	1.20000	888.797		
15	Providing soiling using 80 mm size trap metal in 15 cm. layer Including filling voids with Crushed sand/grit, ramming, watering etc. complete.	250.733	0.0	0.0	0.0	1.32	330.968			

s.W.II- Internal Road Work

Sr No.	Item Number and Description of Item	Execute dQuantl	Quantity of Material for Royalty (Cu.M.)					Metal	Murum	Rubble
			Cement In Bags	Sand						
1	2	3	4	5	6	7	8			

S.W. IV
Royalty charges : 236



6	Providing soiling using 80mm size trap metal in 15cm. Layer including filling voids with Crushed sand/grit, ramming, watering etc. complete. (Speci. / Page No. : 21.40/118)	127.359	0.0	0.0	0.0	0.0	0.0	0.0	1.32	168.114	0.0	0.0
7	Supplying 80 mm size trap stone metal at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 50.56/250)	109.641	0.0	0.0	0.0	0.0	0.0	0.0	1.32	144.726		
8	Supplying 40 mm size trap stone metal at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 50.55/250)	73.094							1.32	96.484		
11	Supplying Hard murum / Kankar at the Road side including conveying and stacking etc. complete. (Speci. / Page No. : 2.29 A/ 24)	46.006									1.20	55.2
25	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 unexposed faces and watering etc. complete. (Crushed sand VSI Grade) (Speci. / Page No. :26.01/146)	5.898	1.70	10.0							1.16	6.8





31	Supplying & spreading Hard mummum for cushioning of RCC pipe including watering, ramming & leveling etc complete. collars in cement mortar 1:2 and curing etc. complete. (Speci. / Page No. :2.27/24)	8.100								1.20	9.7	
34	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-S attachment to achieve not less than 97% of standard proctor density etc. complete (Material obtained from Other sources)	366.402								1.20	439.7	

TOTAL: 10.027 0.000 740.292 1393.406 6.842

Quantity	CEMENT	SAND	CR.METAL	MURUM	RUBBLE
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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	740.292	211.95	4.239		216.189	160042.909	
3	MURUM	1393.406	211.95	4.239		216.189	301239.136	
4	RUBBLE	6.842	211.95	4.239		216.189	1479.096	
Total of Royalty Charges Rs.							462761.142	
Say Rs.							463000.000	

~~Er. Anant V. Gade~~
Engineer,

AVG
Er. Anant V. Gade

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



शिवमल्हार अग्रो प्रोड्यूसर कंपनी लि.

तांदुळवाडी ता. जि. लातूर

CIN No.: U01110MH2017PTC300919

दि. / /



प्रस्तावित जागेचा कच्चा नकाशा

विशाल खोटे यांची जमीन

उत्तर

भागवंत खोटे

यांच्या मालकीचे

जागा

PLOT NO - 254

खोटे

खोटे

यांची

जमीन

अंर्गत रस्ता

विशाल खोटे

यांची जागा

→ तांदुळवाडी

तांदुळवाडी रोड →