

ESTIMATE

**NAME OF WORK:- PROPOSED CONSTRUCTION OF
WARE HOUSE UNIT UNDER SMART PROJECT
SCHEME AT GAT NO. 354/ Part OF VILL.
KARADKHEL , TQ. UDGIR, DIST. LATUR. FOR :
FARM RICH PRODUCER COMPANY LTD., LATUR.**

ESTIMATED COST :-

Rs.	152.69	LAKHS	EXCL. GST
Rs,	170.73	LAKHS	INCL. GST

Prepared By:

AVG CONSULTANTS (ESTB 1988)

Ar. Shruti Anant Gade

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

Er. Anant Gade

D.C.E., B.E.Civil, B.A., B.G.L., LL.B.,
PG.D. Valuation., PG.D. H.R.D., PGD.
Envir.Sci, PG. G.D.C.&A., PG.D. I.S.&S.M.,
M.A.Socio., LL.M., PG.D.Guidance &
Couns., (M.B.A.)

Registration No. CA/2017/90228

Reg. No. NJC.C.I.T./I-16/59/2006-07

Civil Engineer, Architects, Environmental and Green Building Consultants and Govt. Regd. Valuers

"Trupli", Behind AXIS Bank, Ganesh Nagar, AUSA Road, Latur. 413 512.
Ph.: 02382- 95907, Mobile : +91-9890029196
E-mail: anantgade@gmail.com



NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL, TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

FACE SHEET

The Work Construction of Warehouse at Karadkhel, Tq. Udgir, Dist. Latur has been Proposed by M/s. Farm Rich 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.

Main GODOWN

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

(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

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GENERAL ABSTRACT

(A) COST OF WORK PORTION	Rs.	15030746.00
(B) COST OF ROYALTY & Q.C.TESTING CHARGES	Rs.	238461.00
TOTAL	Rs.	15269207.00
1) ADD 12% FOR GOODS AND SERVICES TAX	Rs.	1803690.00
GRAND TOTAL	Rs.	17072897.00
SAY	Rs.	17073000.00

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.
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142

NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL , TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Bd.A.1 Page No. 259 SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197 BASIC RATE	200.910	193.00	Cu.M.	38776.00
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	54.540	212.00	Cu.M.	11562.00
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	72.720	291.00	Cu.M.	21162.00
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 VSI Bd. E. 1 Page No. 287 SSR OF 2021-22 ITEM NO. 24.01 & PAGE NO.226 RATE ANALYSIS	148.806	5842.03	Cu.M.	869329.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
5	<p>Providing and laying In situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. Bd.F.3 Page No. 298 and B.7, Page No.38 SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230 RATE ANALYSIS</p>	58.973	6755.26	Cu.M.	398378.00
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. Bd.F.5 Page No. 300 and B.7, Page.No. 38 SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232 RATE ANALYSIS</p>	38.053	12444.16	Cu.M.	473538.00
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. Bd.F.6 Page No. 300 and B.7, Page No.38 SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234 RATE ANALYSIS</p>	56.993	11090.56	Cu.M.	632084.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
8	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. with fine aggregate (Natural Sand / Crushed Bd.F.9 Page No. 303 and B.7, Page No.38 SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239 RATE ANALYSIS</p>	0.979	12555.76	Cu.M.	12292.00
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 etc. Bd.F.10 Page No. 304 SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240 RATE ANALYSIS</p>	0.945	12714.28	Cu.M.	12015.00
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>	15.840	12579.16	Cu.M.	199254.00



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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, parapets, 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	16.232	71943.55	M.T.	1167788.00
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 Bd.G. 1 Page No. 313 SSR OF 2021-22 ITEM NO. 27.01 & PAGE NO.254 RATE ANALYSIS	184.382	8067.26	Cu.M.	1487458.00
13	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	127.260	113.00	Cu.M.	14380.00
14	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer in charge. 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	793.800	728.55	Cu.M.	578323.00
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit ramming, watering etc. complete As directed by Engineer in charge. SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201 RATE ANALYSIS	281.751	1735.65	Cu.M.	489021.00
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. Bd.G.5 Page No. 315 SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254 RATE ANALYSIS	240.609	8294.26	Cu.M.	1995674.00
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 Bd.L.4 Page No. 368 SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.268				



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	RATE ANALYSIS	795.900	395.94	Sq.M.	315129.00
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 Bd.L.7 Page No. 369 SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO.269				
	RATE ANALYSIS	1100.452	648.30	Sq.M.	713423.00
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 steel Bd.C.2 Page No. 275 SSR OF 2021-22 ITEM NO. 23.01 & PAGE NO.223				
	BASIC RATE	20.545	89181.00	M.T.	1832224.00
20	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 SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317				
	BASIC RATE	46.080	5150.00	Sq.M.	237312.00
21	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 paint Bd.T.55, Page No. 510				



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
	SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.318 BASIC RATE	36.750	4310.00	Sq.M.	158393.00
22	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 SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290 BASIC RATE	1896.352	11.00	Sq.M.	20860.00
23	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.) Bd.P.5 Page No. 413 SSR OF 2021-22 ITEM NO. 36.11 & PAGE NO.291 BASIC RATE	795.900	43.00	Sq.M.	34224.00
24	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. Bd.O.8/Page No.406 SSR OF 2021-22 ITEM NO. 35.15 & PAGE NO.287 BASIC RATE	1100.452	97.00	Sq.M.	106744.00
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. As directed by Engineer in charge. SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302 BASIC RATE	1308.228	1095.00	Sq.M.	1432510.00
26	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen As directed by Engineer in charge				



ABSTRACT

SR. NO.	DESCRIPTION OF ITEM	QUANTITY	RATE	UNIT	TOTAL AMOUNT
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SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277
RATE ANALYSIS

1148.688 1548.63 Sq.M. 1778893.00

TOTAL(A) Rs. 15030746.00

- 27 **ROYALTY CHARGES** :- Supply of Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken), royalty charges are not included in the rates.[As per Govt. of Maharashtra, Revenue and Forest Departments Gazette No.67 Dt.15 May,2015. States that the royalty charges of Rs.141.34/Cu.M.) are considered. The surcharge levied on Royalty shall also be payable to the **E DSR ITEM NO. ... & PAGE NO....**

FOR SAND
FOR OTHER METAL

446.579 158.30 Cu.M. 70693.00
1075.551 141.34 Cu.M. 152018.00

Total Royalty Charges 222711.00

- 28 **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

Total Testing Charges 15750.00

TOTAL(B) Rs. 238461.00

TOTAL(A+B) Rs. 15270000.00

Add for GST

15030746.000 X12%

1803689.52

GRAND TOTAL Rs. 17074000.00



(Signature)

Engineer/ Architect

Er.Anant V. Gade

D.C.E., B.E.CMI, B.A., B.G.L., LL.B.,
PG.D.H.R.D., PG.D. Envir.Gol., PG.D.Val.,
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148

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PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL , TQ. UDGIR, DIST.
LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.**

MEASUREMENT SHEET.

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. **SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197 FOR COLUMN FOUNDATION**

TYPE- C1	2	X	10	X	1.50	X	1.70	X	0.750	=	38.250
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	7	X	1.50	X	1.80	X	0.750	=	28.350

FOR PLINTH PROTECTION

1 X 2 X 23.48 X 0.60 X 0.300 = 8.453

For Rain water GUTTER

1 X 2 X 53.18 X 0.60 X 0.300 = 19.145

1 X 2 X 23.48 X 0.60 X 0.600 = 16.906

1 X 2 X 53.18 X 0.60 X 0.600 = 38.290

FOR EXTERNAL PLINTH BEAM

2 X 2 X 4.82 X 0.38 X 0.450 = 3.297

2 X 10 X 4.80 X 0.38 X 0.450 = 16.416

2 X 5 X 4.39 X 0.38 X 0.450 = 7.503

TOTAL QUANTITY

200.910

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 10 X 1.50 X 1.70 X 0.450 = 22.950

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 7 X 1.50 X 1.80 X 0.450 = 17.010

TOTAL QUANTITY

54.540

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**

SSR OF 2021-22 ITEM NO. 21.12 & PAGE NO.198 FOR COLUMN FOUNDATION



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	TYPE- C1	2 X 10 X	1.50 X	1.70 X	0.600 =	30.600
	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 7 X	1.50 X	1.80 X	0.600 =	22.680
TOTAL QUANTITY						72.720 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 10 X	1.50 X	1.70 X	0.100 =	5.100	
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 7 X	1.50 X	1.80 X	0.100 =	3.780	
FOR Rain water Gutter	1 X 2 X	24.34 X	0.60 X	0.100 =	2.921	
	1 X 2 X	54.38 X	0.60 X	0.100 =	6.526	
FOR PLINTH PROTECTION	1 X 2 X	23.14 X	0.60 X	0.100 =	2.777	
	1 X 2 X	54.38 X	0.60 X	0.100 =	6.526	
FOR BELOW GROUND BEAMS	2 X 2 X	4.82 X	0.38 X	0.450 =	3.297	
	2 X 10 X	4.80 X	0.38 X	0.450 =	16.416	
	2 X 5 X	4.39 X	0.38 X	0.450 =	7.503	
FOR BEDDING BELOW TRIMIX FLOORING	1 X 1 X	52.50 X	21.60 X	0.080 =	90.720	
TOTAL QUANTITY						148.806 Cu.M.

- 5 Providing and laying in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230 FOR COLUMN FOOTING-bottom base

TYPE- C1	2 X 10 X	1.20 X	1.40 X	0.500 =	16.800
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 7 X	1.20 X	1.50 X	0.350 =	8.820
FOR COLUMN FOOTING-bottom base	2 X 10 X	0.75 X	0.95 X	0.700 =	9.975



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	C2	2 X 4	0.75	0.95	0.700	= 3.990
	C3	2 X 2	0.75	1.05	0.900	= 2.835
	CP (for Platforms)	2 X 7	0.75	1.05	0.500	= 5.513
TOTAL QUANTITY						58.973

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

$$2 \times 10 \times 0.30 \times 0.45 \times 1.600 = 4.320$$

C2

$$2 \times 4 \times 0.30 \times 0.45 \times 1.600 = 1.728$$

C3

$$2 \times 2 \times 0.30 \times 0.45 \times 1.600 = 0.864$$

CP (for Platforms)

$$2 \times 7 \times 0.30 \times 0.57 \times 1.500 = 3.591$$

FOR COLUMN ABOVE PLINTH

TYPE- C1

$$2 \times 10 \times 0.30 \times 0.45 \times 5.600 = 15.120$$

C2 AT GABLE WALL - AVG HT. 6.10 MTR.

$$2 \times 4 \times 0.30 \times 0.45 \times 6.100 = 6.588$$

C3

$$2 \times 2 \times 0.30 \times 0.45 \times 5.600 = 3.024$$

C4 (at Shutter above DB)

$$2 \times 7 \times 0.23 \times 0.35 \times 2.500 = 2.818$$

TOTAL QUANTITY

38.053

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. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

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

PLINTH BEAMS BELOW GROUND LEVEL

Beam @ Long walls

$$2 \times 2 \times 4.82 \times 0.35 \times 0.450 = 3.037$$

$$2 \times 10 \times 4.80 \times 0.35 \times 0.450 = 15.120$$

@ Gable wall/ short wall

$$2 \times 5 \times 4.39 \times 0.35 \times 0.450 = 6.911$$

Beams @ platform

$$2 \times 8 \times 1.20 \times 0.30 \times 0.450 = 2.592$$

$$2 \times 3 \times 3.33 \times 0.30 \times 0.450 = 2.697$$

Shutter beams

$$1 \times 7 \times 5.10 \times 0.30 \times 0.450 = 4.820$$

Beams DB

$$2 \times 2 \times 4.82 \times 0.34 \times 0.300 = 1.967$$

$$2 \times 5 \times 4.80 \times 0.34 \times 0.300 = 4.896$$



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
	Beam- EB (Roof level top binder beams)	2 X 5	4.39	0.34	0.230	= 3.431
		1 X 2	48.38	0.23	0.300	= 6.676
	Lintel over Ventilator V-1	1 X 2	21.71	0.23	0.300	= 2.996
		2 X 8	1.70	0.34	0.200	= 1.850
TOTAL QUANTITY						56.993 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 8	X 1.70	X 0.45	X 0.080	= 0.979
TOTAL QUANTITY				0.979 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

4 X 7	X 0.60	X 0.45	X 0.125	= 0.945
TOTAL QUANTITY				0.945 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 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. 26.25 & PAGE NO.241
 For Platform

2 X 4	X 5.50	X 1.80	X 0.200	= 15.840
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MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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TOTAL QUANTITY **15.840**
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, 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	=	4.128
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...COLUMNS	=	3.805
QUANTITY REQUIRED 120KG/Cu.M. OF RCC...BEAM/LINTELS	=	6.839
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CHHAJJA	=	0.098
QUANTITY REQUIRED 100KG/Cu.M. OF RCC...CANOPY	=	0.095
QUANTITY REQUIRED 80KG/Cu.M. OF RCC...SLAB/STEPS	=	1.267

TOTAL QUANTITY **16.232**
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

2 X 2 X 4.82 X 0.34 X 1.000	=	6.555
2 X 10 X 4.80 X 0.34 X 1.000	=	32.640
2 X 5 X 4.39 X 0.34 X 1.000	=	14.919

Short walls

2 X 2 X 54.40 X 0.10 X 0.600	=	13.056
2 X 2 X 23.14 X 0.10 X 0.600	=	5.554
2 X 2 X 54.40 X 0.60 X 0.600	=	78.336
2 X 2 X 23.14 X 0.60 X 0.600	=	33.322

For Rainwater gutter

TOTAL QUANTITY **184.382**
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

= 54.540

= 72.720

TOTAL QUANTITY **127.260**
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 52.50 X 21.60 X 0.700 = 793.800

TOTAL QUANTITY **793.800**
Cu.M.

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

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

FOR BELOW FLOORING

For plinth Protection

1 X 1 X 52.50 X 21.60 X 0.200 = 226.800

1 X 2 X 23.14 X 0.60 X 0.600 = 16.661

1 X 2 X 53.18 X 0.60 X 0.600 = 38.290

TOTAL QUANTITY **281.751**



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY	
16	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254					Cu.M.	
	FOR SUPER STRUCTURE (Below DB/ Shutter top)	2 X 2 X	4.82 X	0.34 X	2.500 =	16.388	
		2 X 10 X	4.80 X	0.34 X	2.500 =	81.600	
		2 X 5 X	4.39 X	0.34 X	2.500 =	37.298	
	FOR SUPER STRUCTURE (Above DB and Below EB)	2 X 2 X	4.82 X	0.23 X	3.100 =	13.747	
		2 X 10 X	4.80 X	0.23 X	3.100 =	68.448	
		2 X 5 X	4.39 X	0.23 X	3.100 =	31.286	
	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 6 X	2.10 X	0.34 X	2.500 =	-10.710	
	Ventilators- V1	-1 X 32 X	0.60 X	0.34 X	0.600 =	-3.917	
	Ventilators- V2	-1 X 42 X	1.00 X	0.23 X	0.600 =	-5.796	
	ventilators-V3 [at shutter bays]	-1 X 16 X	1.30 X	0.23 X	0.450 =	-2.153	
	TOTAL QUANTITY						240.609
							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					Cu.M.	
	INTERNAL SIDE	1 X 2 X	52.50 X	5.60	=	588.000	
		1 X 2 X	21.60 X	5.60	=	241.920	
	Gable wall Tringular portion	0.5 X 2 X	21.60 X	3.60	=	77.760	
	Deductions						
	Shutter	-1 X 6 X	3.00 X	3.65	=	-65.700	
	Ventilators- V1	-1 X 32 X	0.60 X	0.60	=	-11.520	
	Ventilators- V2	-1 X 42 X	1.00 X	0.60	=	-25.200	
	ventilators-V3 [at shutter bays]	-1 X 16 X	1.30 X	0.45	=	-9.360	
	TOTAL QUANTITY						795.900
							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					Sq.M.
		EXTERNAL	1 X 2 X	53.18 X	6.60	=	701.976
			1 X 2 X	22.28 X	6.60	=	294.096
		Gable wall Tringular portion	0.5 X 2 X	21.60 X	3.75	=	81.000
Parapet walls		1 X 2 X	23.00 X	1.36	=	62.560	
DEDUCTION		-1 X 2 X	3.00 X	3.65	=	-21.900	
		-1 X 24 X	1.20 X	0.60	=	-17.280	
TOTAL QUANTITY						1100.452	
							Sq.M.



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
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- 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 approved quality and shade etc. complete.

SSR OF 2021-22 ITEM NO. 23.01 & PAGE NO.223

FOR TRUSSES (0.11 Kn per Sqmtr.)
For Purlins (0.06 Kn Per sqmtr.)

$$1 \times 22 \times 53.18 \times 0.110 \times 0.102 = 13.294$$

$$1 \times 22 \times 53.18 \times 0.060 \times 0.102 = 7.251$$

TOTAL QUANTITY	20.545
	M.T.

- 20 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 of anti-corrosive paint etc. complete

SSR OF 2021-22 ITEM NO. 39.22 & PAGE NO.317

FOR WINDOWS/ VENTILATORS.. V1

V2

V3

$$1 \times 32 \times 0.60 \times 0.60 = 11.520$$

$$1 \times 42 \times 1.00 \times 0.60 = 25.200$$

$$1 \times 16 \times 1.30 \times 0.45 = 9.360$$

TOTAL QUANTITY	46.080
	Sq.M.

- 21 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild
- SSR OF 2021-22 ITEM NO. 39.24 & PAGE NO.318
FOR GODOWN

$$1 \times 7 \times 2.10 \times 2.50 = 36.750$$

TOTAL QUANTITY	36.750
	Sq.M.



MEASUREMENT SHEET.

SR. NO.	DESCRIPTION OF ITEM	NO.	L	B	D	QUANTITY
22	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing & brooming down SSR OF 2021-22 ITEM NO. 36.03 & PAGE NO.290 QUANTITY SAME AS PER ITEM NO.17 QUANTITY SAME AS PER ITEM NO.18					= 795.900 = 1100.452
TOTAL QUANTITY						1896.352 Sq.M.
23	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					= 795.900
TOTAL QUANTITY						795.900 Sq.M.
24	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					= 1100.452
TOTAL QUANTITY						1100.452 Sq.M.
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 SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302 FOR GODOWN ROOF					= 1308.228
TOTAL QUANTITY						1308.228 Sq.M.
26	Providing and laying In situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete. SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277 FOR FLOORING					= 1148.688
TOTAL QUANTITY						1148.688



MEASUREMENT SHEET.

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

- 27 **ROYALTY CHARGES** :- Supply of Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken), royalty charges are not included in the rates.[As per Govt. of Maharashtra, Revenue and Forest Departments Gazette No.67 Dt.15 May,2015. States that the royalty charges of Rs.141.34/Cu.M.) are considered. The surcharge levied on Royalty shall also be payable to the contractor.

E DSR ITEM NO. ... & PAGE NO....

SAND	=	446.579
MURUM-HARD	=	793.800
SOLING	=	281.751

TOTAL QUANTITY	1522.130
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- 28 **Laboratory testing charges** are not considered in the Rate Abstracts. Where ever required separate item shall be taken in the estimate for material testing charges, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year and shall form part of tender.

testing of material by Quality control and certified

BASIC TEST OF AGGREGATE

Water Absorption, Specific Gravity, Impact Value, Crushing Value

1 Nos. = 1.000

BASIC TEST OF CEMENT

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

1 Nos. = 1.000

BRICKS

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

1 Nos. = 1.000

CONCRETE

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

9 Nos. = 9.000

MURUM-HARD

Sieve Analysis

1 Nos. = 1.000

STEEL BAR TESTING

Upto 16 mm (Set of 3 Bars)

1 Nos. = 1.000

TOTAL QUANTITY	14.000
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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 GAT NO. 354/ Part OF VILL. KARADKHEL , TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

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

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum , including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.02 & PAGE NO.197			193.00
TOTAL RATE Rs.				193.00 PerCu.M.
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. 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
	ADD LEAD CHARGES FOR CEMENT	0.22000	165.55	36.42
	ADD LEAD CHARGES FOR SAND	0.47000	947.37	445.26
	ADD LEAD CHARGES FOR CR METAL	0.24000	300.37	72.09
	ADD LEAD CHARGES FOR 40MM METAL CB	0.70000	278.70	195.09
	@ADD DIFF.COST FOR SAND	0.47000	625.00	293.75
	@ADD DIFF.COST FOR 20MM METAL	0.24000	-96.00	-23.04
	TOTAL			6491.14
	DEDUCT 10% FOR SCADA			-649.11
TOTAL RATE Rs.				5842.03 PerCu.M.



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

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
5	<p>Providing and laying in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/pumping cover blocks, compaction and curling 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 fully automatic micro processor based PLC with SCADA</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.11 & PAGE NO.230</p>			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	<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. With fully automatic micro processor based PLC with SCADA</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.31 & PAGE NO.232</p>			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)

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
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</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 25.5 & PAGE NO.234</p>			11483.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	<u>-60.07</u>
				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			<u>-1232.28</u>
	TOTAL RATE Rs.			11090.56 PerCu.M.
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 sand</p> <p>BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.05 & PAGE NO.239</p>			13111.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.42500	141.34	<u>-60.07</u>
				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			<u>-1395.08</u>
	TOTAL RATE Rs.			12555.76 PerCu.M.



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

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
9	<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 Grade BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.11 & PAGE NO.240</p>			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	<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. BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 26.25 & PAGE NO.241</p>			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)

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, parapets, 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
				7297.77
	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.			8067.26 PerCu.M.
13	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.36 & PAGE NO.201			113.00
	TOTAL RATE Rs.			113.00 PerCu.M.
14	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete.			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.37 & PAGE NO.201			550.00
	ADD LEAD CHARGES FOR MURUM-HARD	1.00000	186.55	186.55
	@ADD DIFF.COST FOR MURUM-HARD	1.00000	-8.00	-8.00
	TOTAL RATE Rs.			728.55 PerCu.M.
15	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete			
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 21.4 & PAGE NO.201			1322.00
	ADD LEAD CHARGES FOR SOLING	1.00000	367.47	367.47
	ADD LEAD CHARGES FOR GRIT	0.15000	287.86	43.18
	@ADD DIFF.COST FOR GRIT	0.15000	20.00	3.00
	TOTAL RATE Rs.			1735.65 PerCu.M.
16	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete			



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

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 27.05 & PAGE NO.254			7570.00
	DEDUCT ROYALTY CHARGES FOR SAND	0.32000	141.34	-45.23
				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			359.00
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 32.06 & PAGE NO.268			
	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			599.00
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 32.11 & PAGE NO.269			
	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			89181.00
	BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 23.01 & PAGE NO.223			
	TOTAL RATE Rs.			89181.00 PerM.T.



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

SR NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
20	<p>Providing and fixing in position factory made box type steel window with glazed 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.



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

SR. NO.	DESCRIPTION OF ITEM	QTY.	NET LEAD CHARGES	RATE
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25 Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated Hex head self-drilling screw etc
SSR OF 2021-22 ITEM NO. 38.34 & PAGE NO.302

1095.00
TOTAL RATE Rs. 1095.00 PerSq.M.

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

BASIC RATE AS PER SSR OF 2021-22 ITEM NO. 33.31 & PAGE NO.277
DEDUCT ROYALTY CHARGES FOR SAND

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		
			<u>1366.99</u>		
	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.



(Signature)

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

166

NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER
SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL, TQ. UDGIR,
DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., 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



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



167A

NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL, TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

LEAD CHART

SR.N O.	MATERIAL	TYPE OF MATERIAL	LOCATION OF QUARRY	LEAD IN KM.	LEAD CHARGES	INITIAL LEAD CHARGES	NET LEAD CHARGES
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1	CEMENT	MANUAL	UDGIR	18.00	165.55	0.00	165.55
2	SAND	RIVER	GANGAKHED	80.00	947.37	0.00	947.37
3	CR METAL	MACHINE	UDGIR	18.00	300.37	0.00	300.37
4	40MM METAL CB	MACHINE	UDGIR	18.00	278.70	0.00	278.70
5	STEEL	MANUAL	UDGIR	18.00	165.55	0.00	165.55
6	BRICKS PER 1000 Nos	MANUAL	UDGIR	18.00	533.16	0.00	533.16
7	MURUM-HARD	MACHINE	LOCAL	2.00	186.55	0.00	186.55
8	SOLING	MACHINE	UDGIR	18.00	367.47	0.00	367.47
9	GRIT	MACHINE	UDGIR	18.00	287.86	0.00	287.86

Engineer/ Architect



[Handwritten Signature]

Er. Anant V. Gade
 D.C.E., B.E.C.M.I., 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

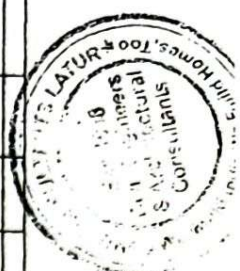
NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL, TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

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.
1	Providing and laying Cast in situ/Ready Mix cement concrete 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 complete with fully automatic mixer.	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Providing and laying Cast in situ/Ready Mix cement concrete 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 complete with fully automatic mixer.	148.806	0.22000	32.737	0.47000	69.939	0.24000	35.713	0.70000	104.164										
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 complete with fully automatic mixer.	58.973	0.35000	20.641	0.42500	25.064	0.85000	50.127												
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, formwork,	38.053	0.35000	13.319	0.42500	16.173	0.85000	32.345												
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 centering.	56.993	0.35000	19.948	0.42500	24.222	0.85000	48.444												
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	0.979	0.35000	0.343	0.42500	0.416	0.85000	0.832												



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.	
3	Providing and laying Cast in situ/Ready Mix concrete M-25 of trap / granite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including centering, formwork, SSS OF 2019-20 ITEM NO. 26.11 & PAGE NO.240	3	0.37500	0.354	0.42500	0.402	0.85000	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803
6	Providing and laying Cast in situ/Ready Mix 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 SSS OF 2019-20 ITEM NO. 26.21 & PAGE NO.241	0.945	0.35000	5.544	0.42500	6.732	0.85000	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	13.464	
7	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 SSS OF 2019-20 ITEM NO. 26.32 & PAGE NO.242	16.232									1.00000	16.232									
8	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. SSS OF 2019-20 ITEM NO. 27.01 & PAGE NO.244	184.382	0.07900	14.566	0.32000	59.002							0.47500	87.581							
9	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. SSS OF 2019-20 ITEM NO. 21.27 & PAGE NO.201	793.800													1.00000	793.800					
10	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, remaining, watering etc. complete. SSS OF 2019-20 ITEM NO. 21.4 & PAGE NO.201	281.751															1.00000	281.751	0.15000	42.263	
11	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 SSS OF 2019-20 ITEM NO. 27.05 & PAGE NO.244	240.609	0.07900	19.008	0.32000	76.995															
12																					



NAME OF WORK:- PROPOSED CONSTRUCTION OF WARE HOUSE UNIT UNDER SMART PROJECT SCHEME AT GAT NO. 354/ Part OF VILL. KARADKHEL , TQ. UDGIR, DIST. LATUR. FOR : FARM RICH PRODUCER COMPANY LTD., LATUR.

MATERIAL SUMMARY

SR.NO.	MATERIAL	TOTAL QUANTITY	QUANTITY OF ROYALTY	REMARKS
1	CEMENT	257.209	-	
2	SAND	446.579	446.579	
3	CR METAL	399.980	-	
4	40MM METAL CB	104.164	-	
5	STEEL	16.232	-	
6	BRICKS	201.871	-	
7	MURUM-HARD	793.800	793.800	
8	SOLING	281.751	281.751	
9	GRIT	42.263	-	

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