

**AOUDMBAR ENGG. CONSULTANT**

Kotharkar Complax F1 Near Bus-Stand  
Umarched Tq. Umarched  
Dist. Yavatmal  
Mo.9423434693

**Gajanan D. Chinnawar**

B.E (Civil) MIE, FIV  
Approved Valuer F-19484  
Chartered Engineer -M-129817/2  
Govt. approved valuer cat- 1/218/16-17

**RECAPULATION SHEET**

DATE:-11/12/2022


NAME OF WORK :- PROPOSED CONSTRUCTION OF 1020 MT CAPACITY GODOWN  
SIZE OF GODOWN:- 36.39 M X 15.70 M X 6.00 M  
CONSTRUCTION AREA:- 601.09 SQ.M  
FLOOR AREA:- 547.57 SQ.M  
PROJECT LOCATION:- AT MZ WAKAD. GUT.NO.334 TQ. RISOD DIST.WASHIM  
PROMOTOR:- MAHAVIDARBHA FARMER PRODUCER CO.LTD

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Godown)	As Per Estimate	79,00,000/-
2.	Internal Road Work/ infrastructure Development	L.S	6,00,000/-
3.	Add For Electrification	2%	1,58,000/-
4.	Add For Royalty	As Per Royalty Statement	1,72,000/-
5.	Rate Analysis Charges	2.5%	1,97,500/-
6.	Add For Lab Testing Charges	As Per Statement	47,685/-
7.	Total Cost		90,75,185/-
8.	Add 18% for GST Charges Or As Applicable		16,33,534/-
9.	Total		1,07,08,719/-
10.	Add 0.5% For Insurance		53,544/-
11.	Add 5% For Contengency		5,35,436/-
12.	Total Amount		1,12,97,699/-
13.	Say		1,13,00,000/-

(In words One Crore Thirteen Lakh Rupess Only)

Note:- The Estimate Is Based on S.S.R 2022-23



  
**Gajanan D. Chinnawar**  
B.E. (Civil) MIE, FIV  
Struct Engr  
Chartered Engr. (M-129817 2  
Govt Approved Valuer (Cat-1/218  
Kotharkar Complex F1  
Near Bus Stand Umarched

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1020 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE  
PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM  
PROMOTER :- MAHAVIDARBHA FARMER PRODUCER CO.LTD

ABSTRACT SHEET

SR.NO	ITEM OF WORK	QTY	RATE	UNIT	AMT.
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/or spreading as directed, dewatering manually, preparing the bed for the foundation and necessary back filling, ramming, watering (Excluding shoring and strutting )etc. complete. (Lift upto 1.5 m.) [Spec.No. :Bd.A.1 Page No. 259 ] Basic Rate as per S.S.R.I. No 21.01, Page No 153	96.66	239.00	CUM	23101.74
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area, stacking and/ or spreading as directed, dewatering manually, preparing the bed for the foundation and necessary back filling ramming watering, etc. complete. (Excluding shoring and strutting ) (Lift upto 1.50 m ) [Spec.No. :Bd.A.2 PageNo. 259 ] Basic Rate as per S.S.R.I. No 21.05, Page No 153	115.99	365.00	CUM	42337.08
3	Providing and laying is situ, cement concrete in 1:4:8 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water form work, compacting and curing etc. complete [Spec.No. :Bd.E.1 Page No. 287]/I.S.456 (2000) Basic Rate as per S.S.R.I. No 24.01, Page No 175	65.34	5830.00	CUM	380939.8956
4	Providing and laying in situ 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 including bailing out water manually, form-work, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel). [Spec.No. :Bd.F.3 Page No. 298/IS:456(2000) ] Basic Rate as per S.S.R.I. No 25.11, Page No 178 <b>FOOTING</b>	37.53	7104.00	CUM	266613.12
5	Providing and casting in situ cement concrete M-20 / [ 1:2:4 ] of trap granite/quartzite/gneiss metal for R.C.C. columns as per detailed drawings and designs, or as directed including ,centering, form-work,compaction ,finishing the formed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or and roughening if special finish is to be provided and curing etc. complete. (excluding reinforcement) [Spec.No. :Bd.F.5 Page No. 300/IS:456(2000) ] Basic Rate as per S.S.R.I. No 25.31, Page No 179	13.53	13783.00	CUM	186531.541
6	Providing & casting in situ cement concrete M-20 of trap/granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork, compaction,				

finishing the formed 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 & curing etc.complete (Excluding reinforcement).  
[Spec.No. :Bd.F.6 Page No. 300/IS:456(2000) ]  
**Basic Rate as per S.S.R.I. No 25.50, Page No 181**

24.74 12269.00 CUM 303537.41

**7** Providing and casting in situ cement concrete of required grade of trap / granite /quartzite /gneiss metal for **R.C.C slabs and landings** as per detailed design and drawings including steel centering, plywood /steel formwork, steel props, 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 with fan hook box of 2 mm thick M.S.Sheet rectangular size 180 mm x 100 mm with required depth, with holes or notches, as required, bottom and top etc.  
**For-C.C M-20**  
**Basic Rate as per S.S.R.I. No 25.70, Page No 182**

2.340 13932.00 CUM 32600.88

**8** Providing and casting in situ cement concrete of required grade of trap / quartzite / granite/ gneiss metal for **R.C.C. chajja** as per detailed design and drawings including steel centering, plywood/steel formwork, steel props, 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) The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only.Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed)  
**Basic Rate as per S.S.R.I. No 26.05, Page No 184**

4.658 13932.00 CUM 64890.80

**9** Providing and fixing in position **steel 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 etc. complete.  
**Basic Rate as per S.S.R.I. No 26.33, Page No 188**

12.000 89703.00 MT 1076436.00

**10** Providing **2nd class Burnt Brick masonry** with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/in plinth of external walls including bailing out water, striking joints on unexposed faces, racking out joints on exposed faces and watering complete.  
**Basic Rate as per S.S.R.I. No 27.01, Page No 197**

17.572 7755.00 CUM 136272.29

**11** Providing & Laying 23 cms Wide Single Layer Initial Coat Of Shailbond @ 1 Kg/ sqm Fixing Sqm in Place by wire nails For D.P.C at plinth as directed by Engineer in charge

19.992 349.25 SQM 6982.07

12	Providing and casting in situ cement concrete M15 of trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as finishing with minimum thickness of 1:3 cement plaster to given a smooth and even surface or roughening them of special finish is to be provided, finishing if required and curing etc. complete. Basic Rate as per S.S.R.I. No 26.23, Page No 185	3.295	7190.00	CUM	23689.50
13	Providing and casting in situ cement concrete of C.C. M-20 grade 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, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a block) The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. complete. <u>Building</u>	0.000	0	CUM	0
14	Filling in plinth and floors with contractors approved material / murum / stone dust in 15cm. to 20cm. layers including watering and compaction complete. Basic Rate as per S.S.R.I. No 21.37, Page No 157 <u>Filling</u>	438.06	599.00	CUM	262397.077
15	Providing soling using 80 mm size granite / quartzite / gneiss / trap metal in 15 cm. layer including hand packing filling voids with sand / grit, ramming, watering etc complete. Basic Rate as per S.S.R.I. No 21.40, Page No 157 <u>Soling</u>	82.14	1454.00	CUM	119425.715
16	Filling in plinth and floors with approved excavated materials in 15 cm. to 20 cm. layers including watering and compaction complete. Basic Rate as per S.S.R.I. No 21.36, Page No 157	0.00	0.00	CUM	0
17	Providing second class Burnt Brick masonry with conventional/l.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 S.S.R.I. No 27.05, Page No 197	50.01	7994.00	CUM	399775.93
18	Providing sand faced plaster externally in cement mortar using Kharsalia/Kasaba or similar type of sand, in all positions including base coat of 15mm. thick in C.M. 1:4, using waterproofing compound at 1kg. per sand faced treatment 6 to 8mm. thick in C.M. 1:4, finishing the surface by taking out grains and curing for fourteen days, scaffolding etc. complete. [Spec.No. :Bd.L.7 Page No. 369] Basic Rate as per S.S.R.I. No 32.11, Page No 209	443.56	639.00	SQM	283434.201
19	Providing internal cement plaster 12mm. thick in single coat in cement mortar 1:5 without neeru finish				

to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.

[Spec.No. :Bd.L.2 Page No. 368 ]

Basic Rate as per S.S.R.I. No 32.03, Page No 209

296.82 271.00 SQM 80437.41

**20** Providing and fixing steel Ventilator fully glazed partly top hung and partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain obscured glass panes of approved type and quality and fastening without teak wood boxing and architecture and oil painting two coats etc. complete. (Sample to be got approved from Ex.Engineer before use) with guard sq. bar 12mm 10cm c/c and oil painting 2 coats etc. Spec.No.: As directed by Engineer- in-charge. Basic Rate as per S.S.R.I. No 39.29, Page No 249

10.080 3375.00 SQM. 34020

**21** Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to the plastered surface including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. [Spec.No. :Bd.O.8 Page No. 406 ]

Basic Rate as per S.S.R.I. No 35.15, Page No 224

443.56 104.00 SQM 46130.136

**22** Providing & applying washable oil bound distemper of approved colour & shed to old surfaces in two coats including scaffolding & preparing the surfaces [excluding primer coat] etc. complete.

Basic Rate as per S.S.R.I. No 36.10, Page No 227

296.82 32.00 SQM 9498.14

**23** Providing and fabricating structural steel work in PEB Structure rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins G.I connecting to truss members & the like, as per detailed design and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted /bolted/welded connections and one coat of anticorrosive paint and over it two coats of oil painting complete [Spec.No. :Bd.C.3 Page No. 275 ]

16.00 119894.00 MT 1918304

**24** Providing and fixing colour coated zinalume @ AZ150( min 150 gms / sg. Mt Total on each side ) proled sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT ) Hi strength steel iwht m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% silicon) with COLOURBOND( R) steel quality super durable polyester paint coat (with inorganix plgment) The paint shall have a total coating thickness of nominal 35 um. Complising of nominate 25 um exterolor coat on top surface profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribes with subtle square fluting in the five pan of nominal 180-250 mm center to center. The end rib shall be designed for anticapillary groove. And return leg . The feed material should havew coll manufactures product details marked a regular interval including fasteners with min. fastered with min 25 um zinc tim alouy coated max head self drilling screw etc completed

(Weight of profile 4.52% sqm)

**ROOFING AND SIDE CLADDING**

	Basic Rate as per S.S.R.I. No 38.34, Page No 236	920.47	1173.00	SQM	1079713.66
25	Providing and laying in situ cement concrete M-30 grade With Trimix treatment for 200 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. completed [Spec. No.: As directed by Engineer-in-charge.] Basic Rate as per S.S.R.I. No 33.31, Page No 216	547.57	1464.00	SQM	801647.165
26	Providing groove cutting 25 milli meters X 6 milli meters in cement concrete flooring & fitting to gap of expansion joints with bitumen of 30/40 grade including cleaning the groove and preparing the same or filling etc. Complete as directed	0.00	0.00	RMT	0
27	Providing and fixing rolling steel shutters fabricated from 18/20 gauge steel laths with side guides, bottom rail, brackets, door suspension shaft including rolling springs, locking arrangement and housing box at top including one coat of red lead primer. Basic Rate as per S.S.R.I. No 39.25 Page No 249 shutter	15.75	5308.00	SQM	83601.000
28	Providing fixing metacolor, epoxy coating, to match G.I sheeting of 22BWG (1mm ) over the ridge, hip or valley for meta colour corrugated epoxy sheet roofing including fastening with galvanised iron screw and bolt and lead and bitumen washer etc. complete. [Spec.No. :Bd.R6                      Page No.452 ]	36.39	1000.00	RMT	36390.00
29	Providing & fixing Turbo Ventilator of 24 inches throat diameter of aluminium and of approved make including fixing on dome manufactured from same material used for roofing all necessary fittings etc Complete ( Prior approval of sample and brand by Engineer in charge is necessary before use ) As directed by Engineer - in - charge	8.00	9702	Nos	77616
30	Providing & fixing M.S. Channel ISMC 150 X 75 millimeters thick with weight @ 16.80 kilogram / running meter with 20 milli meter diameter & 0.50 meter long bolts & nuts & 1.00 meter center to center M.S. angles for stand of fire bucket including chain fixing in wall applying three coats of oil paints etc complete	365.00	70	kg	25550
31	Providing and fixing lightning conductor system comprising of erecting Air Termination Consisting of tubular copper rod of 25 mm dia 1.2 mm thick with multiple point sheath 1.2 mt long				

(heavy Duty) Welder Clamped to G.I. pipe pole Bgrade 50 mm dia of required length with M.S round base Plate 25 cm dia and 10 mm thick at bottom embeded in cement concrete 1:3:6 d foundation of size 45 mm dia x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolt stofix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kilogram charcoal and salt with alternate layers of charcoal and salt and G.I pipe 40 mm dia 2 meter length Buried in earthe up to earthing plate remining portion above ground level for watering and refilling complete note- Copper strip from lightening conductor is not considered in this item.  
**Basic Rate as per S.S.R.I. No 44.18 Page No 295**

1.00	25784.00	NO.S	25784.00
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**32** providing & fixing in position M.S ladder of 45 cms width made out 50 x 50 x 6 mm two angles for RMT rails and M.S angle stiffners at Three Place as Directed with M.S round bars of 20 mm dia for steps @ every 30 cm c/c including fixing

10.00	805.80	RMT	8058.00
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**33** Providing Pre Constructional Anti-termite tratment as per I.S 6313 (Part - 1) - 1973 by treating the top surface of plinth filling at rate of 5 literes of emulsion concentrates of 0.5 percent of Hepoclore per square metre of surface  
**Basic Rate as per S.S.R.I. No 21.24 Page No 156**

571.32	108.00	SQ.M	61702.884
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TOTAL	7897417.63
SAY RS	79,00,000

IN WORDS:  
 SEVENTY NINE LAKH RUPEES ONLY

**Gajanan D. Chinnawar**  
 B.E. (Civil) MIE, FIV  
 Struct Engr.  
 Chartered Engr. (M-129817/2)  
 Govt Approved Valuer (Cat-1/218)  
 Kotharkar Complex F1,  
 Near Bus Stand Umarkhed

**NAME OF WORK :- PROPOSED CONSTRUCTION OF 1020 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE**  
**PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM**  
**PROMOTER :- MAHAVIDARBHA FARMER PRODUCER CO.LTD**

**LabTesting Charges**

1	Mix Design M-20 Concrete	2	13755.00	No.s	27510.00
2	Concrete M-30/M-20	10	690.00	No.s	6900.00
3	Bricks	2	2175.00	No.s	4350.00
4	Steel 8MM,10MM,12MM,16MM,20MM	7	1275.00	No.s	8925.00
				<b>Total</b>	<b>47685.00</b>

In Words:- forty Seven Thousand Six Hundred Eighty Five Ruppes only



**Gajanan D. Chinnawa**  
**B.E. (Civil) MIE, FIV**  
**Struct Engr.**  
**Charterd Engr.(M-129817 2**  
**Govt Approved Valuer (Cat-1/218**  
**Kotharkar Complex F1**  
**Next Bus Stand (Mumbai)**

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1020 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE  
 PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM  
 PROMOTER :- MAHAVIDARBHA FARMER PRODUCER CO.LTD

ROYALTY STATEMENT


SR.NO		QUANTITY	PER CU.M	TOTAL	RATE	AMOUNT
ITEM NO.03						
	SAND	65.34	0.47	30.71	237.37	7289.59
	METAL	65.34	0.94	61.42	216.18	13277.69
ITEM NO.04						
	SAND	37.53	0.425	15.95	237.37	3786.11
	METAL	37.53	0.85	31.90	216.18	6896.25
ITEM NO.05						
	SAND	13.53	0.425	5.75	237.37	1364.94
	METAL	13.53	0.85	11.50	216.18	2486.18
ITEM NO.06						
	SAND	24.74	0.425	10.51	237.37	2495.83
	METAL	24.74	0.85	21.03	216.18	4546.05
ITEM NO.07						
	SAND	2.340	0.425	0.99	237.37	236.06
	METAL	2.340	0.85	1.99	216.18	429.98
ITEM NO.08						
	SAND	4.658	0.425	1.98	237.37	469.91
	METAL	4.658	0.85	3.96	216.18	855.92
ITEM NO.10						
	SAND	17.572	0.32	5.62	237.37	1334.74
ITEM NO.12						
	SAND	3.295	0.425	1.40	237.37	332.41
	METAL	3.295	0.85	2.80	216.18	605.47
ITEM NO.14						
	MURUM	438.06		438.06	216.18	94699.81
ITEM NO.15						
	MURUM	82.14		82.14	216.18	17757.03
ITEM NO.17						
	SAND	50.01	0.32	16.00	237.37	3798.68
ITEM NO.18						
	SAND	443.56	0.033	14.64	237.37	3474.50

ITEM NO.19	SAND	296.82	0.015	4.45	237.37	1056.84
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ITEM NO.25	SAND	547.57	0.033	18.07	237.37	4289.23
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TOTAL	<u>171483.21</u>
SAY RS	1,72,000/-

In Words:- One Lakh Seventy Two Thousand Rupees Only

  
**Gajanan D. Chinnawar**  
B.E. (Civil) MIE, FIV  
Struct Engr.  
Chartered Engr. (M-129817/2  
Govt Approved Valuer (Cat-1/218  
Kotharkar Complex F1,  
Near Bus Stand Umarkhed

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1020 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM

PROMOTER :- MAHAVIDARBHA FARMER PRODUCER CO.LTD

MEASUREMENT SHEET

SR.NO	ITEM OF WORK	NO.	LENGTH	BREADTH	D/H	QTY	
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/or spreading as directed, dewatering manually, preparing the bed for the foundation and necessary back filling, ramming, watering (Excluding shoring and strutting )etc. complete. (Lift upto 1.5 m.) [Spec.No. :Bd.A.1 Page No. 259 ] <b>column</b>	22	1.80	2.10	1.00	83.16	
		6	1.50	1.50	1.00	13.50	
		<b>Total Quantity</b>					<b>96.66</b>
		<b>CUM</b>					
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area, stacking and/ or spreading as directed, dewatering manually, preparing the bed for the foundation and necessary back filling ramming watering, etc. complete. (Excluding shoring and strutting ) (Lift upto 1.50 m ) [Spec.No. :Bd.A.2 PageNo. 259 ] <b>column</b>	22	1.80	2.10	1.20	99.79	
		6	1.50	1.50	1.20	16.20	
		<b>Total Quantity</b>					<b>115.99</b>
		<b>CUM</b>					
3	Providing and laying is situ, cement concrete in 1:4:8 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water form work, compacting and curing etc. complete [Spec.No. :Bd.E.1 Page No. 287]/I.S.456 (2000) <b>Column</b>	22	1.80	2.10	0.10	8.32	
		6	1.80	2.10	0.10	2.27	
		1	35.93	15.24	0.10	54.76	
		<b>Total Quantity</b>					<b>65.34</b>
<b>CUM</b>							
4	Providing and laying in situ 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 including bailing out water manually, form-work, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel). [Spec.No. :Bd.F.3 Page No. 298/IS:456(2000) ] <b>FOOTING</b> <b>column footing</b> <b>For Rect Footings</b>	22	1.50	1.65	0.60	32.670	
		6	1.20	1.35	0.50	4.860	
		<b>Total Quantity</b>					<b>37.53</b>
		<b>CUM</b>					
5	Providing and casting in situ cement concrete M-20 /						

[ 1:2:4 ] of trap granite/quartzite/gneiss metal for R.C.C. columns as per detailed drawings and designs, or as directed including centering, form-work, compaction, finishing the formed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or and roughening if special finish is to be provided and curing etc. complete. (excluding reinforcement)  
 [Spec.No. :Bd.F.5 Page No. 300/IS:456(2000) ]

<b>Building Column</b>	22	0.35	0.60	2.60	12.01
<b>Platform Column</b>	6	0.23	0.35	2.40	1.16
<b>FC</b>	3	0.23	0.15	3.50	0.36
<b>Total Quantity</b>					<b>13.53</b>
					<b>CUM</b>

**6** Providing & casting in situ cement concrete M-20 of trap/granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork, compaction, finishing the formed 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 & curing etc. complete (Excluding reinforcement).  
 [Spec.No. :Bd.F.6 Page No. 300/IS:456(2000) ]

**FOR PLINTH BEAM**

beam...Long side	16	4.18	0.23	0.60	9.232
beam...Short side	6	4.77	0.23	0.60	3.947

**PROJECTION BEAM**

	6	1.3	0.23	0.45	0.807
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**FOR LINTELS BEAM**

Ventilator Chajja Beam	14	1.80	0.23	0.15	0.869
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**Lintel Beam Top**

beam...Long side	16	4.18	0.23	0.45	6.924
beam...Short side	6	4.77	0.23	0.45	2.960

**Total Quantity** 24.74  
**CUM**

**7** Providing and casting in situ cement concrete of required grade of trap / granite / quartzite / gneiss metal for R.C.C slabs and landings as per detailed design and drawings including steel centering, plywood / steel formwork, steel props, 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 with fan hook box of 2 mm thick M.S. Sheet rectangular size 180 mm x 100 mm with required depth, with holes or notches, as required, bottom and top etc.

**For-C.C M-20**

<b>Plat form</b>	3	4	1.3	0.150	2.340
<b>Total Quantity</b>					<b>2.340</b>
					<b>CUM</b>

**8** Providing and casting in situ cement concrete of required grade of trap / quartzite / granite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, plywood/steel formwork, steel props, 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) The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed)

Ventilator chajja

Chajja Around Plinth For Rat Proof

14	1.80	0.45	0.08	0.907
2	36.39	0.45	0.08	2.620
2	15.70	0.45	0.08	1.130
<b>Total Quantity</b>				<b>4.658</b>
				<b>CUM</b>

9 Providing and fixing in position **steel 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 etc. complete.

[Spec.No. :Bd.F.17 Page No 306. ]

Footing  
Column  
Beam  
Slab  
Chajja  
Flooring

AS PER CALCULATION

37.53	100.000	3753.00
13.53	125.000	1691.68
24.74	120.000	2968.82
2.34	70.000	163.80
4.658	50	232.884
547.570	6	3285.42

AS PER CALCULA

A] H.Y.S.D. BAR.

B] MILD STEEL BAR.

ITEM NO. QTY.

12095.61

Total Quantity

12.000

MT

10 Providing **2nd class Burnt Brick masonry** with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/in plinth of external walls including bailing out water, striking joints on unexposed faces, racking out joints on exposed faces and watering complete.

beam...Long side

beam...Short side

16	4.18	0.23	0.80	12.310
6	4.77	0.23	0.80	5.262
<b>Total Quantity</b>				<b>17.572</b>
				<b>CUM</b>

11 Providing & Laying 23 cms Wide Single Layer Initial Coat Of Shailbond @ 1 Kg/ sqm Fixing Sqm in Place by wire nails For D.P.C at plinth as directed by Engineer in charge For Panel In Plinth

2	6.00	4.22	0.23	11.647
2	2.00	4.22	0.23	3.882
2	2.00	4.85	0.23	4.462
<b>Total Quantity</b>				<b>19.992</b>
				<b>SQM</b>

12 Providing and casting in situ **cement concrete M15** of

trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as finishing with minimum thickness of 1:3 cement plaster to given a smooth and even surface or roughening them of special finish is to be provided, finishing if required and curing etc. complete.

**FOR COPING BEAM**

beam...Long side

beam...Short side

16	4.18	0.23	0.15	2.308
6	4.77	0.23	0.15	0.987
<b>Total Quantity</b>				<b>3.295</b>
				<b>CUM</b>

**13** Providing and casting in situ cement concrete of C.C. M-20 grade 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, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a block) The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.complete.

Building

For Flight

For Step

<b>Total Quantity</b>				<b>0.000</b>
				<b>CUM</b>

**14** Filling in plinth and floors with contractors approved material / murum / stone dust in 15cm. to 20cm. layers including watering and compaction complete.  
Filling

1	35.93	15.24	0.80	438.06
<b>Total Quantity</b>				<b>438.06</b>
				<b>CUM</b>

**15** Providing soling using 80 mm size granite / quartzite / gneiss / trap metal in 15 cm. layer including hand packing filling voids with sand / grit, ramming, watering etc complete.

Soling

1	35.93	15.24	0.15	82.14
<b>Total Quantity</b>				<b>82.14</b>
				<b>CUM</b>

**16** Filling in plinth and floors with approved excavated materials in 15 cm. to 20 cm. layers including watering and compaction complete.

<b>Total Quantity</b>				<b>0.00</b>
				<b>CUM</b>

**17** 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.

[Spec.No. :Bd.G.5 Page No. 315]

Long side

Short side

16	4.18	0.23	2.60	40.007
6	4.77	0.23	2.60	17.103
<b>Total Quantity</b>				<b>57.110</b>
				<b>CUM</b>

Deduction:-

Rolling Shutter

Ventilator

3	2.10	0.23	2.50	3.623
14	1.80	0.23	0.60	3.478

	[-]	7.10
<b>Total Quantity</b>		50.01
		<b>CUM</b>

**18** Providing sand faced plaster externally in cement mortar using Kharsalia/Kasaba or similar type of sand, in all positions including base coat of 15mm. thick in C.M. 1:4, using waterproofing compound at 1kg. per sand faced treatment 6 to 8mm. thick in C.M. 1:4, finishing the surface by taking out grains and curing for fourteen days, scaffolding etc. complete.  
[Spec.No. :Bd.L.7 Page No. 369]

<b>Wall</b>	2	36.39	-	4.05	294.76
<b>Wall</b>	2	15.70	-	4.05	127.17
<b>Wall</b>	3	4.00		1.05	12.600
<b>Plat form</b>				1.00	25.200
<b>Ventilator chajja</b>	14	1.80			459.729
<b>Rolling Shutter half</b>	2	2.10		2.50	10.500
<b>Ventilator half</b>	7.0	1.80		0.45	5.670
				[-]	16.17
				<b>Total Quantity</b>	<b>443.56</b>
					<b>SQM</b>

**19** Providing internal cement plaster 12mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.  
[Spec.No. :Bd.L.2 Page No. 368]

<b>innear wall both side</b>	2	36.93		3.05	225.273
<b>innear wall both side</b>	2	15.24		3.05	92.964
				<b>Total Quantity</b>	318.237
					<b>SQM</b>
<b>Deduction:-</b>				2.50	15.750
<b>Rolling Shutter half</b>	3	2.10		0.45	5.670
<b>Ventilator half</b>	7.0	1.80		[-]	21.42
				<b>Total Quantity</b>	<b>296.82</b>
					<b>SQM</b>

**20** Providing and fixing steel Ventilator fully glazed partly top hung and partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain obscured glass panes of approved type and quality and fastening without teak wood boxing and architecture and oil painting two coats etc. complete. (Sample to be got approved from Ex.Engineer before use) with guard sq. bar 12mm 10cm c/c and oil painting 2 coats etc.  
Spec.No.: As directed by Engineer- in-charge.

<b>Ventilator</b>	28	0.60		0.60	10.080
				<b>Total Quantity</b>	10.080
					<b>SQM</b>

**21** Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to the plastered surface including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.  
[Spec.No. :Bd.O.8 Page No. 406 ]  
External wall Item no.18 As per Qty.

<b>External wall Item no.18 As per Qty.</b>	1				443.56
				<b>Total Quantity</b>	443.56

**22** Providing & applying washable oil bound distemper of approved colour & shed to old surfaces in two coats including scaffolding & preparing the surfaces [excluding primer coat] etc. complete.  
Internal wall Item no.19 As per Qty.

		1		
			<b>Total Quantity</b>	<u>296.82</u> <b>SQM</b>

**23** Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members & the like, as per detailed design and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted /bolted/welded connections and one coat of anticorrosive paint and over it two coats of oil painting complete [Spec.No. :Bd.C.3 Page No. 275 ]  
L/S

		1		
			As Per Calculation	<u>16.000</u>
			<b>Total Quantity</b>	<u><b>16.000</b></u> <b>MT</b>

**24** Providing and fixing colour coated zincalume @ AZ150( min 150 gms / sq. Mt Total on each side ) proled sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT ) Hi strength steel iwht m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% silicon) with COLOURBOND( R) steel quality super durable polyester paint coat (with inorganix plgment) The paint shall have a total coating thickness of nominal 35 um. Compising of nominate 25 um exterolor coat on top 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 of nominal 180-250 mm center to center. The end rib shall be designed for anticapillary groove. And return leg . The feed material should havew coll manufactures product details marked a regular interval including fasteners with min. fastered with min 25 um zinc tim aloy coated max head self drilling screw etc completed  
(Weight of profile 4.52% sqm)

	<u>ROOFING AND CEILING</u>	2	7.85	36.39
	<u>Side Cladding</u>	2	15.70	3.05
		2	36.39	3.05
		2	15.70	1.00
			<b>Total Quantity</b>	<u><b>920.47</b></u> <b>SQM</b>

**25** Providing and laying in situ cement congrete M-30 grade  
With Trimix treatment for 200 mm thickness for flooring  
with groove cutting of 4 mm wide and 20 mm deep with necessary  
refilling with bitumen etc.completed  
[Spec. No.: As directed by Engineer-in-charge.]  
FLOOR

		1		
			35.93	15.24
			<b>Total Quantity</b>	<u><b>547.57</b></u> <b>SQM</b>

**26** Providing groove cutting 25 milli meters X 6 milli meters in cement concrete flooring & fitting te gap of expansion joints with bituman of 30/40 grade including cleaning the groove and preparig the

same or filing etc . Complete as directed

0 0.00  
0 0

0.00  
0  
0  
RMT

27 Providing and fixing rolling steel shutters fabricated from 18/20 guage steel laths with side guides, bottom rail, brackets, door suspension shaft including rolling springs, locking arrangement and housing box at top including one coat of red lead primer. shutter

3 2.10

2.50

15.75

Total Quantity

15.75

SQM

28 Providing fixing metacoulour, epoxy coating, to match G.I sheeting of 22BWG (1mm ) over the ridge ,hip or valley for meta colour corrugated epoxy sheet roofign including fastening with galvanised iron screw and bolt and lead and bitumen washer etc. complete.  
[Spec.No. :Bd.R6 Page No.452 ]

36.39

RMT

36.39

29 Providing & fixing Turbo Ventilator of 24 inches throat doiameter of aluminium and of approved make including fixing on dome manufactured from same material used for roofing all necessary fittings etc Complete ( Prior approval of sample and brand by Engineer in charge is necessary before use ) As direced by Engineer - in - charge

8

Nos

8

30 Providing & fixing M.S. Channel ISMC 150 X 75 millimeters thick with weight @ 16.80 kilogram / running meter with 20 milli meter diamete & 0.50 meter long bolts & nuts & 1.00 meter center to center M.S. angles for stand of fire bucket including chain fixing in wall applying three coats of oil paints etc complete

365

kg

365

31 Providing and fixing lighthening conductor system comprising of erecting Air Termination Consisting of tubular copper rod of 25 mm dia 1.2 mm thick with multiple point shead 1.2 mt long (heavy Duty) Welder Clamped to G.I. pipe pole Bgrade 50 mm dia of required length with M.S round base Plate 25 cm dia and 10 mm thick at bottom embeded in cement concrete 1:3:6 d foundation of size 45 mm dia x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolt stofix earthing strip buried in specially prepared earth pits 1.5 metre below ground level with 40 kilogram charcoal and salt with alternate layers of charcoal and salt and G.I pipe 40 mm dia 2 meter length Buried in earthe up to earthing plate remining portion above ground level for watering and refilling complete note- Copper strip from lighthening conductor is not considered in this item

For Main Bldg Provision

1 1

1.00

1.00

Total Quantity

1.00

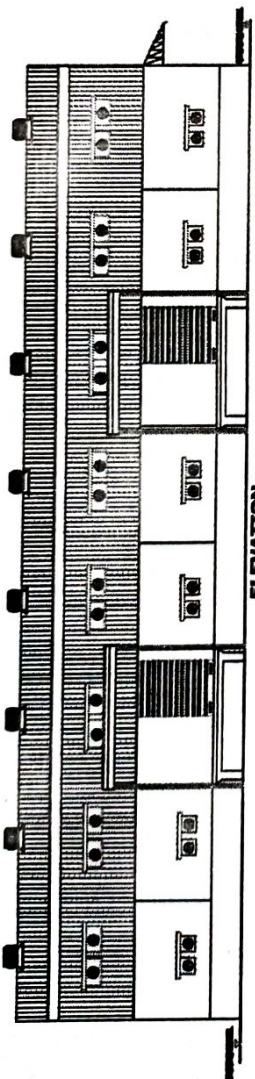
No.s

**32** providing & fixing in position **M.S ladder** of 45 cms width made out 50 x 50 x 6 mm two angles for RMT rails and M.S angle stiffners at Three Place as Directed with M.S round bars of 20 mm dia for steps @ every 30 cm c/c including fixing Provision

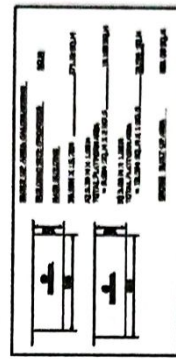
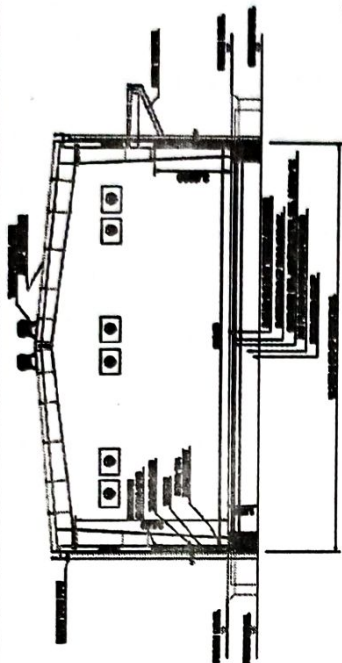
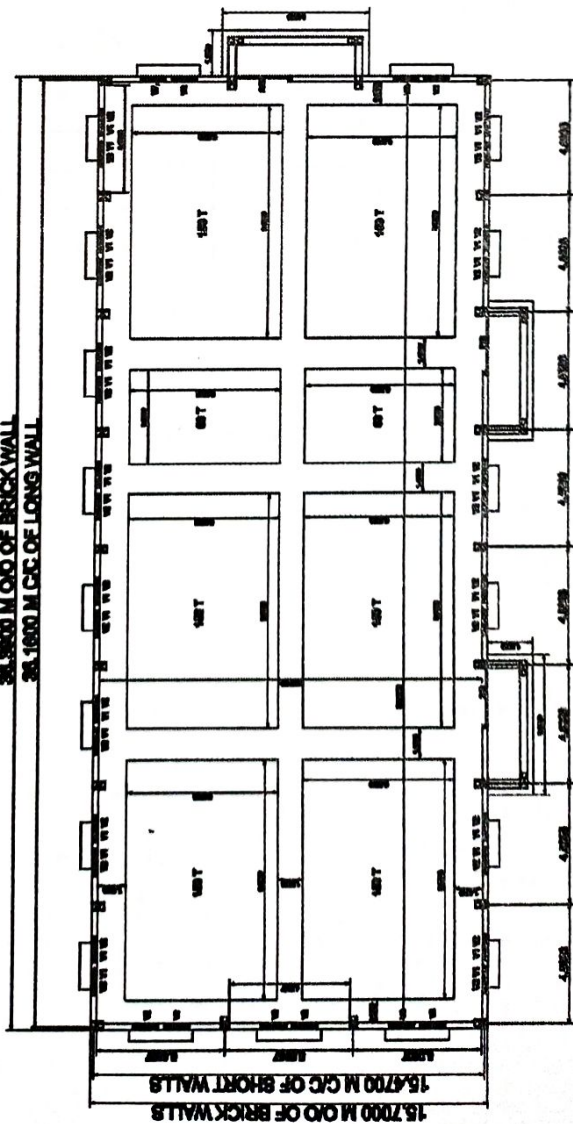
1	1	10.00	10.00
		<b>Total Quantity</b>	<u>10.00</u>
			<b>RMT</b>

**33** Providing Pre Constructional Anti-termite tratment as per I.S 6313 (Part - 1) - 1973 by treating the top surface of plinth filling at rate of 5 literes of emulsion concentrates of 0.5 percent of Hepoclore per square metre of surface  
Main Bldg

1	1	36.39	15.70	571.32
		<b>Total Quantity</b>		<u>571.32</u>
				<b>SQM</b>



38.800 M O.C. OF BRICK WALL  
38.100 M C.C. OF LONG WALL



**AREA STATEMENTS :**  
TOTAL PLOT AREA - 288 SQ.M.  
PROPOSED CON. AREA - 811.80 SQ.M.  
TOTAL COVER FLOOR AREA - 102.87 SQ.M.  
EXISTING STRUCTURE AREA - 00.00

SCHEDULE OF OPERATIONS	
NO.	DESCRIPTION
1	PREPARE DRAWINGS
2	CONSTRUCTION OF 3000 HP CAPACITY GODOWN STORAGE INFRASTRUCTURE ON GUT SIDE - 100000
3	CONSTRUCTION OF 1000 HP CAPACITY GODOWN STORAGE INFRASTRUCTURE ON GUT SIDE - 100000

PROJECT INFORMATION	
PROJECT NO.	100000
DATE OF PROJECT	10/10/2020
PROJECT LOCATION	INDIA
PROJECT TYPE	INDUSTRIAL

DESCRIPTION OF PROJECT	
PROPOSED CONSTRUCTION OF 3000 HP CAPACITY GODOWN STORAGE INFRASTRUCTURE ON GUT SIDE - 100000	
CONSTRUCTION OF 1000 HP CAPACITY GODOWN STORAGE INFRASTRUCTURE ON GUT SIDE - 100000	

OWNER INFORMATION	
OWNER	MANAGEMENT SERVICES PROVIDER COMPANY LIMITED
NAME OF ARCHITECT	INDIA
REGISTERED NO.	

DRAWING INFORMATION	
DRAWING NO.	100000
SCALE	1:100
DATE	/ /

**SUBMISSION DRAWING**