

**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

**SUMMARY SHEET**

DATE:- / /2022

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1500 MT CAPACITY GODOWN  
PROJECT LOCATION:- AT MZ MOHADI. GUT.NO.92 TQ. MAHAGAON DIST.YAVATMAL  
PROMOTOR:- THE MAHAGAON TALUKA FARMER PRODUCER CO.LTD MOHADI

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Godown)	As Per Estimate	1,19,57,000/-
2.	Internal Road Work (Site Development)	L.S	10,00,000/-
3.	Add For Electrification/Fire Hydrant	5%	5,97,850/-
4.	Add For Royalty / Rate Analysis Charges	5%	5,97,850/-
5.	Add For Lab Testing Charges	As Per Calculation	49,065/-
6.	Total Cost		1,42,01,765/-
7.	Add 18% for GST Charges Or As Applicable		25,56,318/-
8.	Total		1,67,58,083/-
9.	Add 0.5% For Insurance		83,791/-
10.	Add 6% For Contengency (Side Gutter Etc.)		10,05,485/-
11.	Total Amount		1,78,47,359/-
12.	Say		1,78,48,000/-

(In words One Crore Seventy Eight Lakh Forty Eight Thousand Rupess Only)

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

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1500 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ MOHADI. GUT.NO.92 TQ. MAHAGAON DIST.YAVATMAL

PROMOTER :- THE MAHAGAON TALUKA FARMER PRODUCER CO.LTD MOHADI

ABSTRACT SHEET

SR.NO	ITEM OF WORK	QTY	RATE	UNIT	AMT.
1	<b>Excavation</b> for foundation in <b>earth soil</b> of all types, <b>sand, gravel and soft murum</b> , 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>Basic Rate as per S.S.R.I. No 21.01, Page No 153</b>	75.60	239.00	CUM	18068.40
2	<b>Excavation</b> for foundation in <b>hard murum</b> 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>Basic Rate as per S.S.R.I. No 21.05, Page No 153</b>	90.72	365.00	CUM	33112.8
3	Providing and laying is situ, <b>cement concrete in 1:4:8</b> of trap/granite/quartzite/gneiss metal <b>for foundation and bedding</b> including bailing out water form work, compacting and curing etc. complete [Spec.No. :Bd.E.1 Page No. 287]/I.S.456 (2000) <b>Basic Rate as per S.S.R.I. No 24.01, Page No 175</b>	92.07	5830.00	CUM	536764.952
4	Providing and laying in situ cement concrete <b>M-20</b> of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like <b>raft, strip foundations, grillage and footings</b> 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>Basic Rate as per S.S.R.I. No 25.11, Page No 178 FOOTING</b>	29.70	7104.00	CUM	210988.80
5	Providing and casting in situ <b>cement concrete M-20 / [ 1:2:4 ]</b> of trap granite/quartzite/gneiss metal for <b>R.C.C. columns</b> 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>Basic Rate as per S.S.R.I. No 25.31, Page No 179</b>	17.65	13783.00	CUM	243276.842
6	Providing & casting in situ cement concrete <b>M-20</b> of trap/granite/quartzite/ gneiss metal for R.C.C. <b>beams and lintels</b> 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** 30.28 12269.00 CUM 371462.50

**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** 3.900 13932.00 CUM 54334.80

**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** 5.427 13932.00 CUM 75603.95

**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** 14.420 89703.00 MT 1293517.26

**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** 21.333 7755.00 CUM 165437.10

**11** 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. <b>Basic Rate as per S.S.R.I. No 26.23, Page No 185</b>	4.001	7190.00	CUM	28764.46
12	Providing and casting in situ cement concrete of C.C. M-20 grade of trap/quartzite /granite /gneiss metal for <b>R.C.C. Waist slab, and steps of staircases</b> 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. <b>Building</b>	0.000	0	CUM	0
13	Filling in plinth and floors with <b>contractors approved material</b> / murum / stone dust in 15cm. to 20cm. layers including watering and compaction complete. <b>Basic Rate as per S.S.R.I. No 21.37, Page No 157</b> <b>Filling</b>	676.08	599.00	CUM	404969.332
14	Providing <b>soling</b> using <b>80 mm</b> size granite / quartzite / gneiss / trap metal in 15 cm. layer including hand packing filling voids with sand / grit, ramming, watering etc complete. <b>Basic Rate as per S.S.R.I. No 21.40, Page No 157</b> <b>Soling</b>	126.76	1454.00	CUM	184315.132
15	Filling in <b>plinth and floors with approved excavated materials</b> in 15 cm. to 20 cm. layers including watering and compaction complete. <b>Basic Rate as per S.S.R.I. No 21.36, Page No 157</b>	0.00	0.00	CUM	0
16	Providing <b>second class Burnt Brick masonry</b> with conventional/I.S. type bricks <b>in cement mortar 1:6 in superstructure</b> including striking joints, raking out, joints, watering and scaffolding etc. complete. <b>Basic Rate as per S.S.R.I. No 27.05, Page No 197</b>	55.21	7994.00	CUM	441335.91
17	Providing <b>sand faced plaster externally</b> in cement mortar using Kharsalia/Kasaba or similar type of sand,in all positions including base coat of 15mm. thick in <b>C.M. 1:4</b> , 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>Basic Rate as per S.S.R.I. No 32.11, Page No 209</b>	513.11	639.00	SQM	327878.888
18	Providing <b>internal cement plaster 12mm. thick in single coat</b> in cement mortar 1:5 <b>without neeru finish to concrete or brick surfaces</b> , in all positions including scaffolding and curing etc. complete. [Spec.No. :Bd.L.2 Page No. 368 ] <b>Basic Rate as per S.S.R.I. No 32.03, Page No 209</b>	335.76	271.00	SQM	90991.10

19	<p>Providing and fixing <b>steel Ventilator fully glazed</b> 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>Basic Rate as per S.S.R.I. No 39.29, Page No 249</b></p>	12.150	3375.00	SQM	41006.25
20	<p>Providing and applying <b>three coats of water proof cement paint</b> 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 ] <b>Basic Rate as per S.S.R.I. No 35.15, Page No 224</b></p>	513.11	104.00	SQM	53363.7
21	<p>Providing &amp; applying <b>washable oil bound distemper</b> of approved colour &amp; shed to <b>old surfaces in two coats</b> including scaffolding &amp; preparing the surfaces [excluding primer coat] etc. complete. <b>Basic Rate as per S.S.R.I. No 36.10, Page No 227</b></p>	335.76	32.00	SQM	10744.34
22	<p>Providing and fabricating <b>structural steel work</b> in PEB Structure rolled sections, fixed <b>with connecting plates or angle cleats in main and cross beams,hip and jack rafters, purlins G.I connecting to truss members&amp;</b> 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 ]</p>	27.85	119894.00	MT	3339047.90
23	<p>Providing and fixing colour coated zinalume @ AZ150( min 150 gms / sg. Mt Total on each side ) prollod 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 palnt shall have a total coating thickness of nominal 35 um. Complsing 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 returun 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 alloy coated max head self drilling screw etc completed (Weight of profile 4.52% sqm) <b>ROOFING AND SIDE CLADDING</b> <b>Basic Rate as per S.S.R.I. No 38.34, Page No 236</b></p>	2027.39	1173.00	SQM	2378132.46

<b>24</b>	Providing and laying <b>in situ cement congrete M-30 grade</b> 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.] <b>Basic Rate as per S.S.R.I. No 33.31, Page No 216</b>	845.09	1464.00	SQM	1237218.494
<b>25</b>	Providing groove cutting 25 milli meters X 6 mili meters in cement concreete 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	0.00	0.00	RMT	0
<b>26</b>	Providing and fixing <b>rolling steel shutters</b> 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. <b>Basic Rate as per S.S.R.I. No 39.25 Page No 249</b> shutter	46.51	5308.00	SQM	246888.350
<b>27</b>	Providing fixing metacolour, epoxy coating, to match G.I sheeting of22BWG (1mm ) over the ridge ,hip or valleyfor meta colour corrugated epoxy sheet roofign including fastening with galvanised iron screw and bolt and lead and bitumen washer etc. complete. <b>[Spec.No. :Bd.R6 Page No.452 ]</b>	40.08	1000.00	RMT	40080.00
<b>28</b>	Providing & fixing Turbo Ventilator of 24 inches throat doiameter of alluminium 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 <b>charge is necessary before use ) As direced by Engineer - in - charge</b>	10.00	9702.00	Nos	97020
<b>29</b>	Providng & fixing M.S. Channel ISMC 150 X 75 milimeters thick with weight @ 16.80 kilogram / running meter with 20 mili 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	365.00	90	kg	32850
				TOTAL	11957173.71
				SAY RS	1,19,57,000

IN WORDS:

ONE CRORE NINETEEN LAKH FIFTY SEVEN THOUSAND RUPEES ONLY

Testing Charges

1	Mix Design M-20 Concrete	2	13755.00	No.s	27510.00
2	Concrete M-30/M-20	12	690.00	No.s	8280.00
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><u>49065.00</u></b>

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1500 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ MOHADI. GUT.NO.92 TQ. MAHAGAON DIST.YAVATMAL

PROMOTER :- THE MAHAGAON TALUKA FARMER PRODUCER CO.LTD MOHADI

MEASUREMENT SHEET

SR.NO	ITEM OF WORK	NO.	LENGTH	BREADTH	D/H	QTY
1	<b>Excavation</b> for foundation in <b>earth soil</b> of all types, <b>sand, gravel and soft murum</b> , 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>	20	1.80	2.10	1.00	75.60
				<b>Total Quantity</b>		<b>75.60</b>
						<b>CUM</b>
2	<b>Excavation</b> for foundation in <b>hard murum</b> 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>	20	1.80	2.10	1.20	90.72
				<b>Total Quantity</b>		<b>90.72</b>
						<b>CUM</b>
3	Providing and laying is situ, <b>cement concrete in 1:4:8</b> of trap/granite/quartzite/gneiss metal <b>for foundation and bedding</b> 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> <b>Below Floor</b>	20 1	1.80 39.62	2.10 21.33	0.10 0.10	7.56 84.51
				<b>Total Quantity</b>		<b>92.07</b>
						<b>CUM</b>
4	Providing and laying in situ cement concrete <b>M-20</b> of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like <b>raft, strip foundations, grillage and footings</b> 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> For Rect Footings	20	1.50	1.65	0.60	29.700
				<b>Total Quantity</b>		<b>29.70</b>
						<b>CUM</b>
5	Providing and casting in situ <b>cement concrete M-20 / [ 1:2:4 ]</b> of trap granite/quartzite/gneiss metal for <b>R.C.C. columns</b> 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) ]

**Column ...C1 to C20**

**Column**

20	0.35	0.70	2.60	12.74
20	0.35	0.23	3.05	4.91
<b>Total Quantity</b>				<b>17.65</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**

**beam...Short side**

12	6.33	0.23	0.60	10.482
8	5.00	0.23	0.60	5.517

**PROJECTION BEAM**

**FOR LINTELS BEAM**

**Ventilator Chajja Beam**

**Lintel Beam Top**

**beam...Long side**

**beam...Short side**

10	1.3	0.23	0.45	1.346
15	1.80	0.23	0.15	0.932
12	6.33	0.23	0.45	7.862
8	5.00	0.23	0.45	4.138

**Total Quantity** **30.28**  
**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**

**Plat form**

5	4	1.3	0.150	3.900
<b>Total Quantity</b>				<b>3.900</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**

15	1.80	0.45	0.08	0.972
2	40.08	0.45	0.08	2.886
2	21.79	0.45	0.08	1.569
<b>Total Quantity</b>				<b>5.427</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. ]

**AS PER CALCULATION**

Footing	29.70	100.000	2970.00
Column	17.65	125.000	2206.31
Beam	30.28	120.000	3633.18
Slab	3.90	70.000	273.00
Chajja	5.427	50	271.332
Flooring	845.090	6	5070.54
			<b>AS PER CALCULA</b>

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

**B] MILD STEEL BAR.**

**ITEM NO. QTY.** 14424.37

**Total Quantity** **14.420**  
**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**

12 6.33 0.23 0.80 13.977

**beam...Short side**

8 5.00 0.23 0.80 7.356

**Total Quantity** **21.333**  
**CUM**

**11** 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**

12 6.33 0.23 0.15 2.621

**beam...Short side**

8 5.00 0.23 0.15 1.380

**Total Quantity** **4.001**  
**CUM**

**12** 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>0.00</b>
						<b>CUM</b>
<b>13</b>	Filling in plinth and floors with <b>contractors approved material</b> / murum / stone dust in 15cm. to 20cm. layers including watering and compaction complete.					
	<u>Filling</u>	1	39.62	21.33	0.80	676.08
				<b>Total Quantity</b>		<b>676.08</b>
						<b>CUM</b>
<b>14</b>	Providing <b>soling</b> using <b>80 mm</b> size granite / quartzite / gneiss / trap metal in 15 cm. layer including hand packing filling voids with sand / grit, ramming, watering etc complete.					
	<u>Soling</u>	1	39.62	21.33	0.15	126.76
				<b>Total Quantity</b>		<b>126.76</b>
						<b>CUM</b>
<b>15</b>	Filling in <b>plinth and floors with approved excavated materials</b> in 15 cm. to 20 cm. layers including watering and compaction complete.					
				<b>Total Quantity</b>		<b>0.00</b>
						<b>CUM</b>
<b>16</b>	Providing <b>second class Burnt Brick masonry</b> with conventional/I.S. type bricks <b>in cement mortar 1:6 in superstructure</b> including striking joints, raking out, joints, watering and scaffolding etc. complete. [Spec.No. :Bd.G.5 Page No. 315 ]					
	<b>Long side</b>	12	6.33	0.23	2.60	45.424
	<b>Short side</b>	8	5.00	0.23	2.60	23.908
				<b>Total Quantity</b>		<b>69.332</b>
						<b>CUM</b>
	<u>Deduction:-</u>					
	Rolling Shutter	5	3.23	0.23	3.05	11.329
	Ventilator	15	1.80	0.23	0.45	2.795
						<b>14.12</b>
				<b>Total Quantity</b>		<b>55.21</b>
						<b>CUM</b>
<b>17</b>	Providing <b>sand faced plaster externally</b> in cement mortar using Kharsalia/Kasaba or similar type of sand,in all positions including base coat of 15mm. thick in <b>C.M. 1:4</b> , 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	40.08	-	4.05	324.65
	<b>Wall</b>	2	21.79	-	4.05	176.50
	<b>Plat form</b>	5	4.00		1.05	21.000
	<b>Ventilator chajja</b>	15	1.80		1.00	27.000

				<u>549.147</u>
Rolling Shutter half	3	3.23	3.05	29.555
Ventilator half	8.0	1.80	0.45	6.480
			[-]	<u>36.03</u>
			<b>Total Quantity</b>	<u>513.11</u>
				<b>SQM</b>
<b>18</b>	<b>Providing internal cement plaster 12mm. thick in single coat</b> in cement mortar 1:5 <b>without neeru finish to concrete or brick surfaces</b> , in all positions including scaffolding and curing etc. complete. [Spec.No. :Bd.L.2 Page No. 368 ]			
<b>inner wall both side</b>	2	39.62	3.05	241.682
<b>inner wall both side</b>	2	21.33	3.05	130.113
			<b>Total Quantity</b>	<u>371.795</u>
				<b>SQM</b>
<u><b>Deduction:-</b></u>				
Rolling Shutter half	3	3.23	3.05	29.555
Ventilator half	8.0	1.80	0.45	6.480
			[-]	<u>36.03</u>
			<b>Total Quantity</b>	<u>335.76</u>
				<b>SQM</b>
<b>19</b>	<b>Providing and fixing steel Ventilator fully glazed</b> 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.			
Ventilator	30	0.90	0.45	12.150
			<b>Total Quantity</b>	<u>12.150</u>
				<b>SQM</b>
<b>20</b>	<b>Providing and applying three coats of water proof cement paint</b> 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.17 As per Qty.	1	-	-	513.11
			<b>Total Quantity</b>	<u>513.11</u>
				<b>SQM</b>
<b>21</b>	<b>Providing &amp; applying washable oil bound distemper</b> of approved colour & shed to <b>old surfaces in two coats</b> including scaffolding & preparing the surfaces [excluding primer coat] etc. complete.			
Internal wall Item no.18 As per Qty.	1	-	-	335.76
			<b>Total Quantity</b>	<u>335.76</u>
				<b>SQM</b>
<b>22</b>	<b>Providing and fabricating structural steel work</b> in rolled sections, fixed <b>with connecting plates or angle cleats in main and cross beams,hip and jack rafters, purlins connecting to truss members</b> & 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			

L/S

1

As Per Calculation

27.850

**Total Quantity****27.850****MT**

- 23** Providing and fixing colour coated zincalume @ AZ150( min 150 gms / sg. Mt Total on each side ) propped 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 with m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOURBOND( R) steel quality super durable polyester paint coat (with inorganic pigment) The paint shall have a total coating thickness of nominal 35 um. Complising of nominate 25 um exterior 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 have coll manufactures product details marked at a regular interval including fasteners with min. fastened with min 25 um zinc tim alloy coated max head self drilling screw etc completed  
(Weight of profile 4.52% sqm)

**ROOFING AND CEILING**

2

20.04

40.08

1606.41

**Side Cladding**

2

21.79

3.05

132.92

2

40.08

3.05

244.49

2

21.79

1.00

43.58

**Total Quantity****2027.39****SQM**

- 24** 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.]

**FLOOR**

1

39.62

21.33

845.09

**Total Quantity****845.09****SQM**

- 25** 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

0.00

0

0

0

**0****RMT**

- 26** 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.  
shutter

5

3.05

3.05

46.51

**Total Quantity****46.51****SQM**

27	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. <b>[Spec.No. :Bd.R6 Page No.452 ]</b>	40.08	RMT	40.08
28	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	10	Nos	10
29	Providing & fixing M.S. Channel ISMC 150 X 75 millimeters thick with weight @ 16.80 kilogram / running meter with 20 millimeter 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	kg	365