

**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:- / /2022

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY GODOWN

SIZE OF GODOWN:- 30.47 M X 18.28 M X 6.00 M

CONSTRUCTION AREA:- 579.62 SQ.M

FLOOR AREA:- 556.99 SQ.M

PROJECT LOCATION:- AT MZ TANDALI BU. GUT.NO. TQ. DIST.WASHIM

**PROMOTOR:- NANAJI FARMER PRODUCER CO.LTD**

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Godown)	As Per Estimate	78,52,000/-
2.	Internal Road Work/ infrastructure Development	L.S	7,00,000/-
3.	Add For Electrification	2%	1,57,040/-
4.	Add For Royalty	As Per Royalty Statement	1,71,000/-
5.	Rate Analysis Charges	2.5%	1,96,300/-
6.	Add For Lab Testing Charges	As Per Statement	34,000/-
7.	Total Cost		91,10,340/-
8.	Add 18% for GST Charges Or As Applicable		16,39,862/-
9.	Total		1,07,50,202/-
10.	Add 0.5% For Insurance		53,751/-
11.	Add 5% For Contengency		5,37,511/-
12.	Total Amount		1,13,41,464/-
13.	Say		1,13,42,000/-

(In words One Crore Thirteen Lakh Forty Two Thousand Rupess Only)

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

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ TANDALI BU. GUT.NO. TQ. DIST.WASHIM

PROMOTER :- NANAJI FARMER PRODUCER CO.LTD

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>	63.26	5830.00	CUM	368800.9028
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	210988.8
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>	15.83	13783.00	CUM	218191.782
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** 24.38 12269.00 CUM 299166.19

**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** 4.548 13932.00 CUM 63366.08

**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** 13.000 89703.00 MT 1166139.00

**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** 16.843 7755.00 CUM 130620.26

**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>	3.158	7190.00	CUM	22706.95
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>	445.59	599.00	CUM	266910.375
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>	83.55	1454.00	CUM	121479.868
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>	40.62	7994.00	CUM	324693.86
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>	414.29	639.00	SQM	264732.908
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>	261.34	271.00	SQM	70823.28

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>	414.29	104.00	SQM	43086.42
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>	261.34	32.00	SQM	8362.90
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>	15.00	119894.00	MT	1798410
23	<p>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 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. 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 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>	979.70	1173.00	SQM	1149187.16

<b>24</b>	<p>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></p>	556.99	1464.00	SQM	815435.702
<b>25</b>	<p>Providing groove cutting 25 milli meters X 6 mili            meters in cement concreete flooring &amp; 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</p>	0.00	0.00	RMT	0
<b>26</b>	<p>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</p>	46.51	5308.00	SQM	246888.350
<b>27</b>	<p>Providing fixing metacoulour, 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></p>	30.93	1000.00	RMT	30930.00
<b>28</b>	<p>Providing &amp; 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></p>	6.00	9702	Nos	58212
<b>29</b>	<p>Providng &amp; fixing M.S. Channel ISMC 150 X 75 milimeters thick            with weight @ 16.80 kilogram / running meter with 20 mili meter            diamete &amp; 0.50 meter long bolts &amp; nuts &amp; 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</p>	365.00	70	kg	25550
				TOTAL	7851205.03
				SAY RS	78,52,000

IN WORDS:  
 SEVENTY EIGHT LAKH FIFTY TWO THOUSAND RUPEES ONLY

**NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE**  
**PROJECT LOCATION :- AT MZ TANDALI BU. GUT.NO. TQ. DIST.WASHIM**  
**PROMOTER :- NANAJI FARMER PRODUCER CO.LTD**

LabTesting Charges					
1	Mix Design M-20 Concrete	1	13755.00	No.s	13755.00
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>	<u>33930.00</u>
				Say Rs	34,000/-

In Words:- Thirty Four Thousand Rupees Only

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ TANDALI BU. GUT.NO. TQ. DIST.WASHIM

PROMOTER :- NANAJI FARMER PRODUCER CO.LTD

ROYALTY STATEMENT

SR.NO		QUANTITY	PER CU.M	TOTAL	RATE	AMOUNT
ITEM NO.03						
	SAND	63.26	0.47	29.73	237.37	7057.53
	METAL	63.26	0.94	59.46	216.18	12855.01
ITEM NO.04						
	SAND	29.70	0.425	12.62	237.37	2996.20
	METAL	29.70	0.85	25.25	216.18	5457.46
ITEM NO.05						
	SAND	15.83	0.425	6.73	237.37	1596.97
	METAL	15.83	0.85	13.46	216.18	2908.81
ITEM NO.06						
	SAND	24.38	0.425	10.36	237.37	2459.51
	METAL	24.38	0.85	20.72	216.18	4479.90
ITEM NO.07						
	SAND	3.900	0.425	1.66	237.37	393.44
	METAL	3.900	0.85	3.32	216.18	716.64
ITEM NO.08						
	SAND	4.548	0.425	1.93	237.37	458.81
	METAL	4.548	0.85	3.87	216.18	835.71
ITEM NO.10						
	SAND	16.843	0.32	5.39	237.37	1279.37
ITEM NO.11						
	SAND	3.158	0.425	1.34	237.37	318.59
	METAL	3.158	0.85	2.68	216.18	580.29
ITEM NO.13						
	MURUM	445.59		445.59	216.18	96327.65
ITEM NO.14						
	MURUM	83.55		83.55	216.18	18061.84
ITEM NO.16						
	SAND	40.62	0.32	13.00	237.37	3085.43
ITEM NO.17						
	SAND	414.29	0.033	13.67	237.37	3245.22

ITEM NO.18						
	SAND	261.34	0.015	3.92	237.37	930.51

ITEM NO.24						
	SAND	556.99	0.033	18.38	237.37	4363.02

<b>TOTAL</b>	<hr/>	170407.91
<b>SAY RS</b>	<hr/>	1,71,000/-

In Words:- One Lakh Seventy One Thousand Rupees Only

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE INFRASTRUCTURE

PROJECT LOCATION :- AT MZ TANDALI BU. GUT.NO. TQ. DIST.WASHIM

PROMOTER :- NANAJI FARMER PRODUCER CO.LTD

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	1.80	2.10	0.10	7.56
		1	30.47	18.28	0.10	55.70
				<b>Total Quantity</b>		<b>63.26</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	0.60	2.60	10.92
20	0.35	0.23	3.05	4.91
<b>Total Quantity</b>				<b>15.83</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	4.81	0.23	0.60	7.957
8	4.24	0.23	0.60	4.675

**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	4.81	0.23	0.45	5.968
8	4.24	0.23	0.45	3.507

**Total Quantity** **24.38**  
**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	30.93	0.45	0.08	2.227
2	18.74	0.45	0.08	1.349
<b>Total Quantity</b>				<b>4.548</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	15.83	125.000	1978.81
Beam	24.38	120.000	2926.07
Slab	3.90	70.000	273.00
Chajja	4.548	50	227.412
Flooring	557.000	6	3342

AS PER CALCULA

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

**B] MILD STEEL BAR.**

**ITEM NO. QTY.**

11717.29

**Total Quantity**

**13.000**

**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**

12 4.81 0.23 0.80 10.609

**beam...Short side**

8 4.24 0.23 0.80 6.234

**Total Quantity**

**16.843**

**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 4.81 0.23 0.15 1.989

**beam...Short side**

8 4.24 0.23 0.15 1.169

**Total Quantity**

**3.158**

**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	30.47	18.28	0.80	445.59
				<b>Total Quantity</b>		<b>445.59</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	30.47	18.28	0.15	83.55
				<b>Total Quantity</b>		<b>83.55</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> <b>Short side</b>	12	4.81	0.23	2.60	34.481
		8	4.24	0.23	2.60	20.260
				<b>Total Quantity</b>		<b>54.741</b>
						<b>CUM</b>
	<b>Deduction:-</b> Rolling Shutter Ventilator	5	3.23	0.23	3.05	11.329
		15	1.80	0.23	0.45	2.795
						<b>14.12</b>
				<b>Total Quantity</b>		<b>40.62</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> <b>Wall</b> <b>Plat form</b> <b>Ventilator chajja</b>	2	30.93	-	4.05	250.53
		2	18.74	-	4.05	151.79
		5	4.00		1.05	21.000
		15	1.80		1.00	27.000

					<u>450.327</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>414.29</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>innear wall both side</b> <b>innear wall both side</b>	2 2	30.47 18.28	3.05 3.05	185.867 111.508
				<b>Total Quantity</b>	<u>297.375</u>
					<b>SQM</b>
	<b><u>Deduction:-</u></b>				
	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>261.34</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	-	-	414.29
				<b>Total Quantity</b>	<u>414.29</u>
<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	-	-	261.34
				<b>Total Quantity</b>	<u>261.34</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&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				

L/S

1

As Per Calculation

15.000

**Total Quantity****15.000****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 tin alloy coated max head self drilling screw etc completed  
(Weight of profile 4.52% sqm)

**ROOFING AND CEILING**

2 9.37 30.93 579.63

**Side Cladding**

2 18.74 3.65 136.80

2 30.93 3.65 225.79

2 18.74 1.00 37.48

**Total Quantity****979.70****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 30.47 18.28 556.99

**Total Quantity****556.99****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**

<b>27</b>	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>	30.93	RMT	30.93
<b>28</b>	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	6	Nos	6
<b>29</b>	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