

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.GAJIPUR, PO. DEULWADI, GUT NO, TQ.DARAWHA
DIST. YAVATMAL**PROMOTOR:- BHUMIBHAKTI FARMER PRODUCER CO.LTD**

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Godown)	As Per Estimate	78,52,000/-
2.	Internal Road Work	L.S	5,00,000/-
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		89,10,340/-
8.	Add 18% for GST Charges Or As Applicable		16,03,862/-
9.	Total		1,05,14,202/-
10.	Add 0.5% For Insurance		52,571/-
11.	Add 5% For Contengency		5,25,711/-
12.	Total Amount		1,10,92,484/-
13.	Say		1,11,00,000/-

(In words One Crore Eleven Lakh 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 GAJIPUR. PO.DEULWADI GUT.NO. TQ. DARAWHA DIST.YAVATMAL
PROMOTER :- BHUMIBHAKTI FARMER PRODUCER CO.LTD

ABSTRACT SHEET

SR.NO	ITEM OF WORK	QTY	RATE	UNIT	AMT.
1	<p>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</p>	75.60	239.00	CUM	18068.40
2	<p>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</p>	90.72	365.00	CUM	33112.8
3	<p>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</p>	63.26	5830.00	CUM	368800.9028
4	<p>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 FOOTING</p>	29.70	7104.00	CUM	210988.8
5	<p>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</p>	15.83	13783.00	CUM	218191.782
6	<p>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,</p>				

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. Basic Rate as per S.S.R.I. No 26.23, Page No 185	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 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	0.000	0	CUM	0
13	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 Filling	445.59	599.00	CUM	266910.375
14	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 Soling	83.55	1454.00	CUM	121479.868
15	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
16	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out, joints, watering and scaffolding etc. complete. Basic Rate as per S.S.R.I. No 27.05, Page No 197	40.62	7994.00	CUM	324693.86
17	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	414.29	639.00	SQM	264732.908
18	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	261.34	271.00	SQM	70823.28

19	<p>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</p>	12.150	3375.00	SQM	41006.25
20	<p>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</p>	414.29	104.00	SQM	43086.42
21	<p>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</p>	261.34	32.00	SQM	8362.90
22	<p>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]</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 alooy 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</p>	979.70	1173.00	SQM	1149187.16

24	<p>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.] Basic Rate as per S.S.R.I. No 33.31, Page No 216</p>	556.99	1464.00	SQM	815435.702
25	<p>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</p>	0.00	0.00	RMT	0
26	<p>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. Basic Rate as per S.S.R.I. No 39.25 Page No 249 shutter</p>	46.51	5308.00	SQM	246888.350
27	<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. [Spec.No. :Bd.R6 Page No.452]</p>	30.93	1000.00	RMT	30930.00
28	<p>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 charge is necessary before use) As direced by Engineer - in - charge</p>	6.00	9702	Nos	58212
29	<p>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</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 GAJIPUR. PO.DEULWADI GUT.NO. TQ. DARAWHA DIST.YAVATMAL
PROMOTER :- BHUMIBHAKTI 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
				Total	<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 GAJIPUR. PO.DEULWADI GUT.NO. TQ. DARAWHA DIST.YAVATMAL

PROMOTER :- BHUMIBHAKTI 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
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ITEM NO.24	SAND	556.99	0.033	18.38	237.37	4363.02
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TOTAL	<hr/>	170407.91
SAY RS	<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 GAJIPUR. PO.DEULWADI GUT.NO. TQ. DARAWHA DIST.YAVATMAL
PROMOTER :- BHUMIBHAKTI 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] column	20	1.80	2.10	1.00	75.60
				Total Quantity		75.60
						CUM
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 mannually, 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] column	20	1.80	2.10	1.20	90.72
				Total Quantity		90.72
						CUM
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) Column Below Floor	20 1	1.80 30.47	2.10 18.28	0.10 0.10	7.56 55.70
				Total Quantity		63.26
						CUM
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)] FOOTING column footing For Rect Footings	20	1.50	1.65	0.60	29.700
				Total Quantity		29.70
						CUM
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)]

Column ...C1 to C20

Column

20	0.35	0.60	2.60	10.92
20	0.35	0.23	3.05	4.91
Total Quantity				15.83
				CUM

- 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
Total Quantity				3.900
				CUM

- 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
Total Quantity				4.548
				CUM

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

					Total Quantity	0.00
						CUM
13	Filling in plinth and floors with contractors approved material / 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
				Total Quantity		445.59
						CUM
14	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.					
	<u>Soling</u>	1	30.47	18.28	0.15	83.55
				Total Quantity		83.55
						CUM
15	Filling in plinth and floors with approved excavated materials in 15 cm. to 20 cm. layers including watering and compaction complete.					
				Total Quantity		0.00
						CUM
16	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out, joints, watering and scaffolding etc. complete. [Spec.No. :Bd.G.5 Page No. 315]					
	Long side	12	4.81	0.23	2.60	34.481
	Short side	8	4.24	0.23	2.60	20.260
				Total Quantity		54.741
						CUM
	<u>Deduction:-</u>					
	Rolling Shutter	5	3.23	0.23	3.05	11.329
	Ventilator	15	1.80	0.23	0.45	2.795
						14.12
				Total Quantity		40.62
						CUM
17	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]					
	Wall	2	30.93	-	4.05	250.53
	Wall	2	18.74	-	4.05	151.79
	Plat form	5	4.00		1.05	21.000
	Ventilator chajja	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>
			Total Quantity	<u>414.29</u>
				SQM
18	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]			
inner wall both side	2	30.47	3.05	185.867
inner wall both side	2	18.28	3.05	111.508
			Total Quantity	<u>297.375</u>
				SQM
<u>Deduction:-</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>
			Total Quantity	<u>261.34</u>
				SQM
19	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.			
Ventilator	30	0.90	0.45	12.150
			Total Quantity	<u>12.150</u>
				SQM
20	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.17 As per Qty.	1	-	-	414.29
			Total Quantity	<u>414.29</u>
21	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.18 As per Qty.	1	-	-	261.34
			Total Quantity	<u>261.34</u>
				SQM
22	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			

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**

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. [Spec.No. :Bd.R6 Page No.452]	30.93	RMT	30.93
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	6	Nos	6
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