

RECAPULATION SHEET

DATE:- / /2023

NAME OF WORK: - PROPOSED CONSTRUCTION OF 600 MT CAP.WH BLDG WITH
ANCILLARY WORKS AT GIRGAON, TQ.- NAGABHID, DIST- CHANDRAPUR,
MAHARASHTRA.

**PROMOTOR: - CHANDRAPUR AGRI PROCESSORS PRODUCER COMPANY.
LTD.**

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Godown)	As Per Estimate	6214400.00
2.	Internal Road Work (Site Development)	L.S	-
3.	Add For Electrification/Fire Hydrant	2%	124288.00
4.	Add For Royalty	As Per Royalty Statement	128824.00
5.	Add For Lab Testing Charges	As Per Statement	49,065.00
6.	Total Cost		6516577.00
7.	Add 18% for GST Charges Or As Applicable		1172983.86
8.	Total		7689560.86
9.	Add 0.5% For Insurance		38447.80
10.	Add 4% For Contengency & Rate Analysis (Side Gutter Etc.)		307582.43
11.	Total Amount		8035591.10
12.	Say		8035500.00

(In words Eighty Lakh Thirty-Five Thousand Five Hundred Rupess Only)

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

NAME OF WORK: - PROPOSED CONSTRUCTION OF 600 MT CAP.WH BLDG WITH ANCILLARY WORKS AT GIRGAON, TQ.- NAGABHID, DIST- CHANDRAPUR, MAHARASHTRA.

PROJECT LOCATION :- AT GIRGAON, TAL-NAGBHID , DIST-CHANDRAPUR , MAHARASHTRA.

PROMOTOR: - CHANDRAPUR AGRI PROCESSORS PRODUCER COMPANY. LTD.

ABSTRACT SHEET

SR.NO	ITEM OF WORK	QTY	UNIT	RATE	AMOUNT
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]</p> <p>Basic Rate as per S.S.R.I. No 21.01, Page No 153</p>	70.31	CUM	239.00	16803.61
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)</p> <p>[Spec.No. :Bd.A.2 PageNo. 259]</p> <p>Basic Rate as per S.S.R.I. No 21.05, Page No 153</p>	46.87	CUM	365.00	17108.28
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</p> <p>[Spec.No. :Bd.E.1 Page No. 287]/I.S.456 (2000)</p> <p>Basic Rate as per S.S.R.I. No 24.01, Page No 175</p>	43.78	CUM	5830.00	255219.33
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).</p> <p>[Spec.No. :Bd.F.3 Page No. 298/IS:456(2000)]</p> <p>Basic Rate as per S.S.R.I. No 25.11, Page No 178</p> <p>FOOTING</p>	29.11	CUM	7104.00	206783.23
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</p>				

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

17.79 CUM 13783.00 245170.07

6 Providing & casting in situ cement concrete **M-20** of trap/granite/quartzite/ gneiss metal for R.C.C. **beams** and **lintels** as per detailed designs & drawings or as directed including centering, formwork, compaction, finishing the formed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or & roughening the surface if special finish is to be provided & curing etc.complete (Excluding reinforcement).
[Spec.No. :Bd.F.6 Page No. 300/IS:456(2000)]

Basic Rate as per S.S.R.I. No 25.50, Page No 181

14.73 CUM 12269.00 180681.51

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

1.017 CUM 13932.00 14168.84

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

4.170 CUM 13932.00 58089.75

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

6.890 MT 89703.00 618020.69

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

13.988 CUM 7755.00 108474.46

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

1.748 CUM 7190.00 12571.43

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 CUM 0 0.00

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

208.76 CUM 599.00 125046.40

Filling

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

52.19 CUM 1454.00 75883.75

Soling

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

0.00 CUM 0.00 0.00

Basic Rate as per S.S.R.I. No 21.36, Page No 157

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

		39.90	CUM	7994.00	318998.73
17	<p>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]</p> <p>Basic Rate as per S.S.R.I. No 32.11, Page No 209</p>	371.18	SQM	639.00	237185.94
18	<p>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]</p> <p>Basic Rate as per S.S.R.I. No 32.03, Page No 209</p>	227.60	SQM	271.00	61680.68
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.</p> <p>Basic Rate as per S.S.R.I. No 39.29, Page No 249</p>	16.200	SQM	3375.00	54675.00
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]</p> <p>Basic Rate as per S.S.R.I. No 35.15, Page No 224</p>	371.18	SQM	104.00	38603.03
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.</p> <p>Basic Rate as per S.S.R.I. No 36.10, Page No 227</p>	227.60	SQM	32.00	7283.33
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>	12.50	MT	119894.00	1498675.00
23	<p>Providing and fixing colour coated zinalume @ AZ150(min 150 gms / 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 1.6% sillicon) with COLOURBOND(R) steel quality super durable paint coat (with inorganix plgment) The palnt shall have a total coating nominal 35 um. Complsing of nominate 25 um exterolor coat on top</p>				

profile sheet shall have nom. 950-1050 mm effective cover width and mm deep ribs with subtle square fluting in the five pan of nominal 180-center to center. The end rib shall be designed for anticapillary groove. leg . The feed material should have coll manufactures product details a regular interval including fasteners with min. fastened with min 25 um aloy 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	1058.41	SQM	1173.00	1241517.28
24	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.complected [Spec. No.: As directed by Engineer-in-charge.]				
	Basic Rate as per S.S.R.I. No 33.31, Page No 216	347.93	SQM	1464.00	509370.98
25	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	RMT	0.00	0.00
26	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	15.56	SQM	5308.00	82565.94
27	Providing fixing metacoulour, epoxy coating, to match G.I sheeting of 22BWG (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]	61.22	RMT	1000.00	61220.00
28	Providing & fixing Turbo Ventilator of 24 inches throat doameter 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 directed by Engineer - in - charge	14.00	Nos	9702.00	135828.00
29	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	kg	90	32850.00
					6214475.27
					6214400.00

IN WORDS:

SIXTY-TWO LAKH FOURTEEN THOUSAND FOUR HUNDRED RUPEES ONLY

NAME OF WORK: - PROPOSED CONSTRUCTION OF 600 MT CAP.WH BLDG WITH ANCILLARY
WORKS AT GIRGAON, TQ.- NAGABHID, DIST- CHANDRAPUR, MAHARASHTRA.

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
				Total	<u>49065.00</u>

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE**PROJECT LOCATION :- AT MZ RAJURA. GUT.NO. TQ. RAJURA DIST.CHANDRAPUR****PROMOTER :- CHANDAGADH FARMER PRODUCER CO.LTD****ROYALTY STATEMENT**

SR.NO		QUANTITY	PER CU.M	TOTAL	RATE	Amount
ITEM NO.03						
	SAND	43.78	0.47	20.58	237.37	4883.92
	METAL	43.78	0.94	41.15	216.18	8895.87
ITEM NO.04						
	SAND	29.11	0.425	12.37	237.37	2936.48
	METAL	29.11	0.85	24.74	216.18	5348.68
ITEM NO.05						
	SAND	17.79	0.425	7.56	237.37	1794.48
	METAL	17.79	0.85	15.12	216.18	
ITEM NO.06						
	SAND	14.73	0.425	6.26	237.37	1485.66
	METAL	14.73	0.85	12.52	216.18	
ITEM NO.07						
	SAND	1.017	0.425	0.43	237.37	102.60
	METAL	1.017	0.85	0.86	216.18	186.88
ITEM NO.08						
	SAND	4.170	0.425	1.77	237.37	420.63
	METAL	4.170	0.85	3.54	216.18	766.16
ITEM NO.10						
	SAND	13.988	0.32	4.48	237.37	1062.48
ITEM NO.11						
	SAND	1.748	0.425	0.74	237.37	176.39
	METAL	1.748	0.85	1.49	216.18	321.28
ITEM NO.13						
	MURUM	208.76		208.76	216.18	45129.43
ITEM NO.14						
	MURUM	52.19		52.2	216.18	11282.36
ITEM NO.16						
	SAND	39.90	0.32	12.77	237.37	3031.10
ITEM NO.17						
	SAND	371.18	0.330	122.49	237.37	29075.54

ITEM NO.18	SAND	227.60	0.015	3.41	237.37	810.40
ITEM NO.22	SAND	12.50	0.033	0.41	237.37	97.92
ITEM NO.23	SAND	1058.41	0.033	34.93	237.37	8290.76
ITEM NO.24	SAND	347.93	0.033	11.48	237.37	2725.42
					TOTAL	<u>128824.44</u>
					SAY RS	<u>128824.00</u>

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAPACITY (GODOWN) STORAGE
PROJECT LOCATION :- AT MZ RAJURA. GUT.NO. TQ. RAJURA DIST.CHANDRAPUR
PROMOTER :- CHANDAGADH FARMER PRODUCER CO.LTD

MEASUREMENT SHEET

SR.N	ITEM OF WORK	NO.	LENGT	BREADT	D/H	QTY	UNIT
------	--------------	-----	-------	--------	-----	-----	------

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]

C1	12	1.80	2.10	0.90		40.82	
C2	4	1.80	2.10	0.90		13.61	
C3	4	2.10	2.10	0.90		15.88	
Total Quantity						70.31	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 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]

C1	12	1.80	2.10	0.60		27.22	
C2	4	1.80	2.10	0.60		9.07	
C3	4	2.10	2.10	0.60		10.58	
Total Quantity						46.87	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)

C1	12	1.80	2.10	0.115		5.22	
C2	4	1.80	2.10	0.115		1.74	
C3	4	2.10	2.10	0.115		2.03	
For Floor	1	30.15	11.54	0.100		34.79	
Total Quantity						43.78	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

C1	12	1.60	1.90	0.45	16.42
C2	4	1.60	1.90	0.45	5.47
C3	4	1.90	1.90	0.50	7.22

Total	29.11	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)]

Footing To Plint	C1	12	0.53	0.30	1.80	3.43
	C2	4	0.53	0.30	1.80	1.14
	C3	4	0.53	0.53	1.80	2.02
Plinth to 3.05	C1	12	0.53	0.30	3.05	5.82
	C2	4	0.53	0.30	3.05	1.94
	C3	4	0.53	0.53	3.05	3.43

Total Quantity	17.79	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	4	4.03	0.23	0.45	1.67
	10	3.92	0.23	0.45	4.06
beam...Short side	4	3.50	0.23	0.45	1.45
	2	3.35	0.23	0.45	0.69
PROJECTION BEAM	2	1.8	0.23	0.45	0.37

FOR LINTELS BEAM

Ventilator Chajja Beam

Lintel Beam Top

beam...Long side

1	3.92	0.23	0.45	0.41
2	1.80	0.23	0.45	0.37
4	4.03	0.23	0.30	1.11
10	3.92	0.23	0.30	2.70
4	3.50	0.23	0.30	0.97
4	3.35	0.23	0.30	0.92

Total Quantity	14.73	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-20Plat form

1	4.52	1.80	0.125	1.02	
Total Quantity				1.02	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	17	1.80	0.45	0.08	1.10
Chajja Around Plinth For Rat Proof	2	30.61	0.45	0.08	2.20
	2	12.00	0.45	0.08	0.86

Total Quantity	4.17	CUM
-----------------------	-------------	------------

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	38.61	90	3474.90
Column	17.79	90	1600.91
Beam	14.73	90	1325.40
Slab	1.02	70	71.19
Chajja	4.170	50	208.48
Flooring	34.793	6	208.76
			<u>6.8896323</u>

M20 76.31

Total Quantity 6.89 **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.

For Long Wall	4	4.03	0.23	0.80	2.97
	10	3.92	0.23	0.80	7.21
For Short Wall	4	3.50	0.23	0.80	2.58
	2	3.35	0.23	0.80	1.23

Total Quantity 13.99 **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 Long Wall	4	4.03	0.23	0.10	0.37
	10	3.92	0.23	0.10	0.90
For Short Wall	4	3.50	0.23	0.10	0.32
	2	3.35	0.23	0.10	0.15

Total Quantity 1.75 **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.

0	3.35	0.45	0.10	0.00	
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.
Filling

1	30.15	11.54	0.60	208.76	
Total Quantity				208.76	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.
Soling

1	30.15	11.54	0.15	52.19	
Total Quantity				52.19	CUM

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

0	0	0	0		
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

4	4.03	0.23	2.70	10.01
10	3.92	0.23	2.70	24.34
				47.208

Short side

4	3.50	0.23	2.70	8.69
2	3.35	0.23	2.70	4.16
				47.208

Deduction:-

Rolling Shutter
Ventilator

2	3.05	0.23	2.55	3.58
18	1.50	0.23	0.60	3.73
				7.304

Total Quantity **39.90** **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	30.61	-	4.10	251.00	
	Wall 2	12.00	-	4.10	98.40	
	Plat form 1	4.52		1.05	4.75	
	2	1.80		1.05	3.78	
	Ventilator chajja					
	top 18	1.70		0.60	18.36	
	Bottom 18	1.80		0.60	19.44	
	Side-1 18		0.6	0.10	1.08	
	18		0.6	0.10	1.08	
					397.888	
Rolling Shutter half	2	3.05		3.05	18.61	
Ventilator half	18.0	1.50		0.30	8.10	
						[-]
					26.705	
						Total Quantity
					371.18	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]

	innear wall both side	2	30.15	3.05	183.92	
	innear wall both side	2	11.54	3.05	70.39	
					254.309	
	<u>Deduction:-</u>					
	Rolling Shutter half	2	3.05	3.05	18.61	
	Ventilator half	18	1.50	0.30	8.10	
						[-]
					26.705	
						Total Quantity
					227.60	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

	18	1.50		0.60	16.20	
						Total Quantity
					16.200	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	-	-	-	371.18	
Total Quantity				371.18	SQM

- 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	-	-	-	227.60	
Total Quantity				227.60	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 complete [Spec.No. :Bd.C.3 Page No. 275]

LumSum

1	As Per Calculation			12.50	
Total Quantity				12.50	MT

- 23** Providing and fixing colour coated zincalume @ AZ150(min 150 gms / sq. Total on each side) proled sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT) Hi strength steel iwht m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% silicon) with COLOURBOND(R) steel quality super durable polyester paint coat (with inorganix plgment) The 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 aloy coated max head self drilling screw etc completed

(Weight of profile 4.52% sqm)

ROOFING AND CEILING	2	6.80	31.00	421.60	
	2	4.52	1.80	16.27	
Side Cladding	2	12.00	7.00	168.00	
	2	30.61	7.00	428.54	
	2	12.00	1.00	24.00	
Total Quantity				1058.412	SQM

- 24** Providing and laying **in situ cement congret 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	30.15	11.54	347.93	
Total Quantity				347.931	SQM

25	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 0	0.00 0	0.00 0 <u>0</u>	RMT
26	Providing and fixing rolling steel shutters fabricated from 18/20 guage steel laths with side guides, bottom rail, brackets, door suspension shaft including rolling springs,locking arrangement and housing box at top including one coat of red lead primer.	shutter 2	3.05	2.55 Total Quantity	15.56 <u>15.555</u> SQM
27	Providing fixing metacoulour, epoxy coating, to match G.I sheeting 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]	2.00	30.61	Total Quantity	61.22 <u>61.22</u> RMT
28	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	1	1	14 Total Quantity	14 <u>14</u> Nos
29	Providing & fixing M.S. Channel ISMC 150 X 75 millimeters 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	1	1	365 kg Total Quantity	365 <u>365</u> KG