

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 CLEANING /MACHINE SHED)

SIZE OF SHED:- 18.28 M X 10.05 M X 10.05M

CONSTRUCTION AREA:- 196.95 SQ.M

FLOOR AREA:- 183.71 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 (Cleaning Machine Shed)	As Per Estimate	28,80,000/-
2.	Add For Electrification	5%	1,44,000/-
3.	Add For Royalty	As Per Royalty Statement	60,000/-
4.	Lead Lift Charges	L.S	55,200/-
5.	Add For Lab Testing Charges	As Per Statement	25,000/-
6.	Total Cost		31,64,200/-
7.	Add 18% for GST Charges Or As Applicable		5,69,556/-
8.	Total		37,33,756/-
9.	Add 0.5% For Insurance		18,669/-
10.	Add 5% For Contengency/Machine Foundation		1,86,688/-
11.	Total Amount		39,39,113/-
12.	Say		39,40,000/-

(In words Thirty Nine Lakh Forty Thousand Rupess Only)

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

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING/ MACHINE SHED
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>	52.92	239.00	CUM	12647.88
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>	63.50	365.00	CUM	23178.96
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>	5.29	5830.00	CUM	30852.36
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>	20.79	7104.00	CUM	147692.16
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>	11.08	13783.00	CUM	152734.247
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 12.21 12269.00 CUM 149840.79

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 1.560 13932.00 CUM 21733.92

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 0.778 13932.00 CUM 10833.52

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 3.400 89703.00 MT 304990.20

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 9.715 7755.00 CUM 75341.09

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 1.822 7190.00 CUM 13097.25

- 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 157 146.97 599.00 CUM 88035.749
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 27.56 1454.00 CUM 40068.023
Soling

- 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 20.83 7994.00 CUM 166535.73

- 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 209 243.21 639.00 SQM 155413.427

- 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 209 148.20 271.00 SQM 40162.61

19	<p>Providing and fixing steel Window 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>	27.675	3375.00	SQM	93403.125
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>	243.21	104.00	SQM	25294.204
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>	148.20	32.00	SQM	4742.45
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>	5.50	90000.00	MT	495000
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. 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 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 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)</p>	629.30	1173.00	SQM	
	<p>ROOFING AND SIDE CLADDING Basic Rate as per S.S.R.I. No 38.34, Page No 236 As Per Market Rate Quotation</p>	629.30	778.88	SQM	490149.18

24	Providing and laying in situ cement concrete M-20 grade of trap metal for 150 mm thick well compacted mechanically vibrated finished to required levels, dewatered by vacuum process " TRIMIX " for flooring floated with neat cement and power trowel to get smooth finish...etc . Complete. [Spec. No.: As directed by Engineer-in-charge.]	183.71	828.00	SQM	152115.192
FLOOR					
25	Providing groove cutting 25 milli meters X 6 milli meters in cement concrete flooring & fitting the gap of expansion joints with bitumen of 30/40 grade including cleaning the groove and preparing the same or filing etc . Complete as directed	66.71	60.00	RMT	4002.6
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. Basic Rate as per S.S.R.I. No 39.25 Page No 249 shutter	18.61	5308.00	SQM	98755.340
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]	18.74	1000.00	RMT	18740.00
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	4.00	9702	Nos	38808
29	Providing & fixing M.S. Channel ISMC 150 X 75 millimeters thick with weight @ 16.80 kilogram / running meter with 20 milli meter diameter & 0.50 meter long bolts & nuts & 1.00 meter center to center M.S. angles for stand of fire bucket including chain fixing in wall applying three coats of oil paints etc complete	365.00	70	kg	25550
				TOTAL	2879718.01
				SAY RS	28,80,000

IN WORDS:
TWENTY EIGHT LAKH EIGHTY THOUSAND RUPEES ONLY

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING/ MACHINE SHED
PROJECT LOCATION :- AT MZ GAJIPUR. PO.DEULWADI GUT.NO. TQ. DARAWHA DIST.YAVATMAL
PROMOTER :- BHUMIBHAKTI FARMER PRODUCER CO.LTD

Lab Testing Charges					
1	Mix Design M-20 Concrete	1	13755.00	No.s	13755.00
2	Concrete M-30/M-20	3	690.00	No.s	2070.00
3	Bricks	2	2175.00	No.s	4350.00
4	Steel 8MM,10MM,12MM,16MM,20MM	4	1275.00	No.s	5100.00
				Total	<u>25275.00</u>
				SAY RS	<u>25,000/-</u>

In Words:- Twenty Five Thousand Rupees Only

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING/ MACHINE SHED
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	5.29	0.47	2.49	237.37	590.17
	METAL	5.29	0.94	4.97	216.18	1074.98
ITEM NO.04	SAND	20.79	0.425	8.84	237.37	2097.34
	METAL	20.79	0.85	17.67	216.18	3820.22
ITEM NO.05	SAND	11.08	0.425	4.71	237.37	1117.78
	METAL	11.08	0.85	9.42	216.18	2035.98
ITEM NO.06	SAND	12.21	0.425	5.19	237.37	1231.77
	METAL	12.21	0.85	10.38	216.18	2243.62
ITEM NO.07	SAND	1.560	0.425	0.66	237.37	157.38
	METAL	1.560	0.85	1.33	216.18	286.65
ITEM NO.08	SAND	0.778	0.425	0.33	237.37	78.49
	METAL	0.778	0.85	0.66	216.18	142.96
ITEM NO.10	SAND	9.715	0.32	3.11	237.37	737.94
ITEM NO.11	SAND	1.822	0.425	0.77	237.37	183.81
	METAL	1.822	0.85	1.55	216.18	334.80
ITEM NO.13	MURUM	146.97		146.97	216.18	31771.97
ITEM NO.14	MURUM	27.56		27.56	216.18	5957.92
ITEM NO.16	SAND	20.83	0.32	6.67	237.37	1582.21
ITEM NO.17	SAND	243.21	0.033	8.03	237.37	1905.12

ITEM NO.18	SAND	148.20	0.015	2.22	237.37	527.67
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ITEM NO.24	SAND	183.71	0.033	6.06	237.37	1439.04
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TOTAL	<u>59317.83</u>
SAY RS	<u>60,000/-</u>

In Words:- Sixty Thousand Rupees Only

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING/ MACHINE SHED
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	14	1.80	2.10	1.00	52.92
				Total Quantity		52.92
						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] column	14	1.80	2.10	1.20	63.50
				Total Quantity		63.50
						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	14	1.80	2.10	0.10	5.29
				Total Quantity		5.29
						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	14	1.50	1.65	0.60	20.79
				Total Quantity		20.79
						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

14	0.35	0.60	2.60	7.64
14	0.35	0.23	3.05	3.44
Total Quantity				11.08
				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	8	4.31	0.23	0.60	4.758
beam...Short side	6	3.05	0.23	0.60	2.528

PROJECTION BEAM

	4	1.3	0.23	0.45	0.538
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FOR LINTELS BEAM

Window Chajja Beam	12	1.80	0.23	0.15	0.745
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Lintel Beam Top

beam...Long side	8	4.31	0.23	0.30	2.379
beam...Short side	6	3.05	0.23	0.30	1.264

Total Quantity				12.21
				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

2	4	1.3	0.150	1.560
Total Quantity				1.560
				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)

Window chajja	12	1.80	0.45	0.08	0.778
			Total Quantity		0.778
					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	20.79	70.000	1455.30
Column	11.08	80.000	886.51
Beam	12.21	80.000	977.04
Slab	1.56	70.000	109.20
Chajja	0.778	50	38.88
			AS PER CALCULA

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

B] MILD STEEL BAR.

ITEM NO. QTY. 3466.92

Total Quantity **3.400**
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	8	4.31	0.23	0.80	6.344
beam...Short side	6	3.05	0.23	0.80	3.371
			Total Quantity		9.715
					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	8	4.31	0.23	0.15	1.190
beam...Short side	6	3.05	0.23	0.15	0.632
			Total Quantity		1.822
					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	18.28	10.05	0.80
				Total Quantity	146.97
					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	18.28	10.05	0.15
				Total Quantity	27.56
					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 Short side	8 6	4.31 3.05	0.23 0.23	2.60 2.60
					20.619
					10.955
				Total Quantity	31.574
					CUM
	Deduction:-				
	Rolling Shutter	2	3.23	0.23	3.05
	Window	15	1.50	0.23	1.20
					10.74
				Total Quantity	20.83
					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 Wall Plat form Window chajja	2 2 2 15	18.74 10.51 4.00 1.50	- -	4.05 4.05 1.05 1.00
					151.79
					85.13
					8.400
					22.500
					267.825
					CUM
	Rolling Shutter half	1	3.23		3.05
	Window half	8.0	1.50		1.23
					9.852
					14.760
					24.61

				Total Quantity	<u>243.21</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] innear wall both side innear wall both side	2 2	18.28 10.05	3.05 3.05	111.508 61.305
				Total Quantity	<u>172.813</u> SQM
	<u>Deduction:-</u>				
	Rolling Shutter half	1	3.23	3.05	9.852
	Window half	8.0	1.50	1.23	14.760
				[-]	<u>24.61</u>
				Total Quantity	<u>148.20</u> SQM
19	Providing and fixing steel Window 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.				
	Window	15	1.50	1.23	27.675
				Total Quantity	<u>27.675</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	-	-	243.21
				Total Quantity	<u>243.21</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	-	-	148.20
				Total Quantity	<u>148.20</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 complete [Spec.No. :Bd.C.3 Page No. 275] L/S	1		As Per Calculation	5.500
				Total Quantity	<u>5.500</u> MT

23 Providing and fixing colour coated zincalume @ AZ150(min 150 gms / sq. Mt Total on each side) proled sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT) Hi strength steel iwht m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% silikon) 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 alooy coated max head self drilling screw etc completed
(Weight of profile 4.52% sqm)

ROOFING	2	5.50	18.74	206.14
Side Cladding	2	10.05	7.00	140.70
	2	18.74	7.00	262.36
	2	10.05	1.00	20.10
			Total Quantity	629.30
				SQM

24 Providing and laying in situ cement congret M-20 grade of trap metal for 150 mm thik well compactd mechanically vibrated finished to required levels, dewatered by vaccum process "TRIMIX" for flooring floated with neat cement and power trowel to get smooth finish...etc . Complete.
[Spec. No...: As directed by Engineer-in-charge.]

FLOOR	1	18.28	10.05	183.71
			Total Quantity	183.71
				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

	3	10.05		30.15
	2	18.28		36.56
				66.71
				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	3.05	18.61
			Total Quantity	18.61
				SQM

27 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] 18.74 RMT 18.74

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

4 Nos 4

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 kg 365