

AOUDMBAR ENGG. CONSULTANT

Kotharkar Complax F1 Near Bus-Stand
Umardhed Tq. Umardhed
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:-11/12/2022

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED

SIZE OF SHED:- 18.28 M X 10.05 M X 10.00 M

CONSTRUCTION AREA:- 196.95 SQ.M

FLOOR AREA:- 183.71 SQ.M

PROJECT LOCATION:- AT MZ WAKAD. GUT.NO. 334 TQ. RISOD DIST.WASHIM

PROMOTOR:- MAHAVIDARBHA FARMER PRODUCER CO.LTD

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	Estimated Cost (Cleaning Machine Shed)	As Per Estimate	25,71,000/-
2.	Add For Electrification	2%	51,420/-
3.	Add For Royalty	As Per Royalty Statement	57,700/-
4.	Add For Lab Testing Charges	As Per statement	25,275/-
5.	Total Cost		27,05,395/-
6.	Add 18% for GST Charges Or As Applicable		4,86,972/-
7.	Total		31,92,367/-
8.	Add 0.5% For Insurance		15,962/-
9.	Total Amount		32,08,329/-
10.	Say		32,09,000/-
11.	Grand Total		32,09,000/-

(In words Thirty Two Lakh Nine Thousand Rupess Only)

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

**Gajanan D. Chinnawar**

B.E. (Civil) MIE, FIV
Struct Engr.
Chartered Engr. (M-129817/2
Govt Approved Valuer (Cat-1/218
Kotharkar Complex F1,
Near Bus Stand Umardhed

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED
 PROJECT LOCATION :- AT MZ WAKAD. GUT.NO 234 TQ. RISOD DIST. WASHIM
 PROMOTER :- MAHAVIDARBHA FARMER PRODUCER CO.LTD

ABSTRACT SHEET

SR.NO	ITEM OF WORK	QTY	RATE	UNIT	AMT.
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] Basic Rate as per S.S.R.I. No 21.01, Page No 153	52.92	239.00	CUM	12647.88
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] Basic Rate as per S.S.R.I. No 21.05, Page No 153	63.50	365.00	CUM	23178.96
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) Basic Rate as per S.S.R.I. No 24.01, Page No 175	5.29	5830.00	CUM	30852.36
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)] Basic Rate as per S.S.R.I. No 25.11, Page No 178 FOOTING	20.79	7104.00	CUM	147692.16
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)] Basic Rate as per S.S.R.I. No 25.31, Page No 179	7.64	13783.00	CUM	105357.252
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

9.36 12269.00 CUM 114861.01

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

2.500 89703.00 MT 224257.50

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
Filling

146.97 599.00 CUM 88035.749

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

27.56 1454.00 CUM 40068.023

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

22.07 7994.00 CUM 176464.28

17 Providing 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 32.12, Page No 209

246.90 563.00 SQM 139006.671


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

151.89 271.00 SQM 41162.60

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>	22.140	3375.00	SQM	74722.5
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>	246.90	104.00	SQM	25677.964
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>	151.89	32.00	SQM	4860.53
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 zinalume @ AZ150(min 150 gms / sg. Mt Total on each side) prollod sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT) Hi strength steel iwht m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% sillicon) with COLOURBOND(R) steel quality super durable polyester paint coat (with inorganix plgment) The paint 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 fiuting 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)</p> <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>	629.30 629.30	1173.00 600.00	SQM SQM	377580.00

24	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with the necessary refilling with bitumen etc. complete Basic Rate as per S.S.R.I. No 33.30, Page No 216 FLOOR	183.71	796.00	SQM	146236.344
25	Providing groove cutting 25 milli meters X 6 millimeters 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	0.00	0.00	RMT	0
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	18.61	5308.00	SQM	98755.340
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]	18.74	1000.00	RMT	18740.00
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 direced by Engineer - in - charge	4.00	9702	Nos	38808
29	Providng & fixing M.S. Channel ISMC 150 X 75 millimeters thick with weight @ 16.80 kilogram / running meter with 20 milli 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	70	kg	25550
				TOTAL	2570520.90
				SAY RS	25,71,000

IN WORDS:
TWENTY FIVE LAKH SEVENTY ONE THOUSAND RUPEES ONLY


Gajanan D. Chinnawar
 B.E. (Civil) MIE, FIV
 Structr Engr.
 Chartered Engr. (M-129817/2
 Govt Approved Valuer (Cat-1/218)
 Kotharkar Complex F1,
 Near Bus Stand Umardhad

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED
PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST. WASHIM
PROMOTER :- MAHAVIDARBHA 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>

In Words :- Twenty Five Thousand Two Hundred Seventy Five Rupees Only



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Struct Engr.
Chartered Engr. (M-129817/2
Govt Approved Valuer (Cat-I/218
Kotharkar Complex F1
Near Bus Stand Umardhad

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED

PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM


PROMOTER :- MAHAVIDARBHA 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	7.64	0.425	3.25	237.37	770.74
	METAL	7.64	0.85	6.49	216.18	1403.87
ITEM NO.06						
	SAND	9.36	0.425	3.98	237.37	944.26
	METAL	9.36	0.85	7.96	216.18	1719.93
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	22.07	0.32	7.06	237.37	1676.40
ITEM NO.17						
	SAND	246.90	0.033	8.15	237.37	1934.02

ITEM NO.18	SAND	151.89	0.015	2.28	237.37	540.81
ITEM NO.24	SAND	183.71	0.033	6.06	237.37	1439.04
					TOTAL	<u>57663.70</u>
					SAY RS	<u>57,700/-</u>

In Words:- Fifty Seven Thousand Seven Hundred Rupees Only


Gajanan D. Ch. Inam
 B.E. (Civil) MIE, FIV
 Struct Engr
 Chartered Engr. (M-129817-2)
 Govt Approved Valuer (Cat-1/218)
 Kotharkar Complex F1
 Near Bus Stand Umarkhed

NAME OF WORK :- PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED
PROJECT LOCATION :- AT MZ WAKAD. GUT.NO. TQ. RISOD DIST.WASHIM
PROMOTER :- MAHAVIDARBHA 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		<u>52.92</u> 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		<u>63.50</u> 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		<u>5.29</u> 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		<u>20.79</u> 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/S:456(2000)]
Column

14	0.35	0.60	2.60	<u>7.64</u>
		Total Quantity		<u>7.64</u>
				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/S:456(2000)]

FOR PLINTH BEAM

beam...Long side
 beam...Short side

8	4.31	0.23	0.45	3.569
6	3.05	0.23	0.45	1.896

PROJECTION BEAM

FOR LINTELS BEAM

Window Chajja Beam

4	1.3	0.23	0.30	0.359
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Lintel Beam Top

beam...Long side
 beam...Short side

12	1.80	0.23	0.15	0.745
8	4.31	0.23	0.23	1.824
6	3.05	0.23	0.23	0.969

Total Quantity				<u>9.36</u>
				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	<u>1.560</u>
Total Quantity				<u>1.560</u>
				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
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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	1456.30
Column	7.64	80.000	611.52
Beam	9.36	80.000	748.95
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. 2963.85

Total Quantity 2.500
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
beam...Short side

8	4.31	0.23	0.80	6.344
6	3.05	0.23	0.80	<u>3.371</u>
		Total Quantity		<u>9.715</u>
				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
beam...Short side

8	4.31	0.23	0.15	1.190
6	3.05	0.23	0.15	<u>0.632</u>
		Total Quantity		<u>1.822</u>
				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

13 Filling in plinth and floors with contractors approved material / murum / stone dust in 15cm. to 20cm. layers including watering and compaction complete.
Filling

				Total Quantity	<u>0.00</u>
					CUM
1	18.28	10.05	0.80		146.97
				Total Quantity	<u>146.97</u>
					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	18.28	10.05	0.15		27.56
				Total Quantity	<u>27.56</u>
					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	<u>0.00</u>
					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	4.31	0.23	2.60		20.619
6	3.05	0.23	2.60		10.955
				Total Quantity	<u>31.574</u>
					CUM
2	3.23	0.23	3.05		4.532
12	1.50	0.23	1.20		4.968
					<u>9.50</u>
				Total Quantity	<u>22.07</u>
					CUM

Deduction:-

Rolling Shutter
Window

17 Providing 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

Rolling Shutter half
Window half

2	18.74	-	4.05		151.79
2	10.51	-	4.05		85.13
2	4.00		1.05		8.400
15	1.50		1.00		22.500
					<u>267.825</u>
					CUM
1	3.23		3.05		9.852
6.0	1.50		1.23		11.070
					<u>20.92</u>
				Total Quantity	<u>246.90</u>
					CUM

- 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	18.28	3.05	111.508
2	10.05	3.05	61.305
		Total Quantity	<u>172.813</u>
			SQM
1	3.23	3.05	9.852
6.0	1.50	1.23	11.070
		Total Quantity	<u>20.92</u>
			151.89
			SQM

Deduction:-

- Rolling Shutter half
 Window half

- 19 Providing and fixing steel Window fully glazed party top hung and party 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

12	1.50	1.23	22.140
		Total Quantity	<u>22.140</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	-	-	246.90
		Total Quantity	<u>246.90</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	-	-	151.89
		Total Quantity	<u>151.89</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 hwht 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 paint 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 return 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)

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

24 Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with the necessary refilling with bitumen etc. complete

FLOOR	1	18.28	10.05	183.71
			Total Quantity	<u>183.71</u>
				SQM

25 Providing groove cutting 25 milli meters X 6 mili 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
				<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	3.05	18.61
			Total Quantity	<u>18.61</u>
				SQM

27 Providing fixing metacolor, 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.

71 Providing & fixing 1 unit Ventilator of 24 inches throat diameter of aluminum and of approved make including fixing on form manufactured from same material used for roofing all necessary fittings etc. Complete (Prior approval of sample and test by Engineer in charge is necessary before use) As directed by Engineer - In - charge

1

182

1

72 Providing & fixing M.S. 1" x 1" x 1/8" angles ISMC 150 x 75 millimeters flat with weight @ 40 RD kilogram / running meter with 20 mill meter diameter & 0.50 meter long bolts & nuts & 1.50 meter center to center M.S. angles for stand of fire bucket including chain fixing in wall applying three coats of oil paint etc. complete

385

18

385

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 directed by Engineer - in - charge

4

Nos

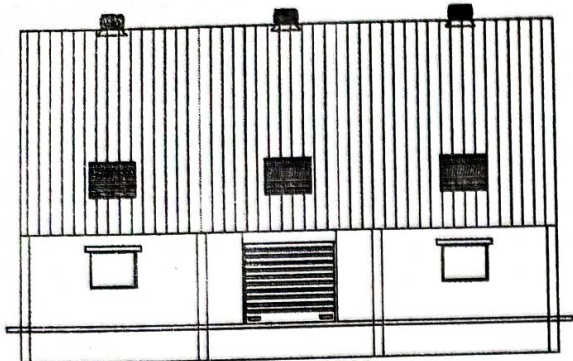
4

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

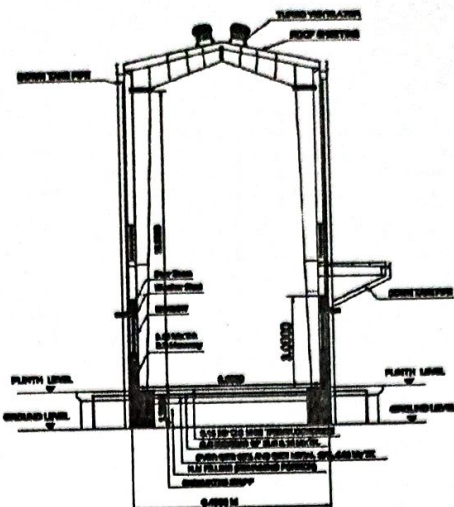
365

kg

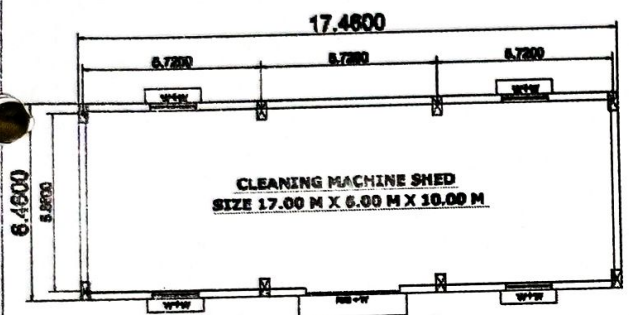
365



ELEVATION



SECTION A-A



CLEANING MACHINE SHED
SIZE 17.00 M X 6.00 M X 10.00 M

CLEANING MACHINE SHED
scale 1:100
SIZE 17.46 M X 6.46 M X 10.00 M

BUILT UP AREA CALCULATIONS

BUILDING SIZE (PROPOSED) 50.4
MAIN BUILDING
17.46 M X 6.46 M = 112.79



AREA STATEMENTS:
TOTAL PLOT AREA = 50.4
PROPOSED BUILT UP AREA = 112.79
TOTAL COVERED FLOOR AREA = 112.79
EXISTING STRUCTURE AREA = 50.4

SCHEDULE OF OPENINGS			
NO.	TYPE	SIZE	REMARKS
1	DOOR	2.00 X 1.00	AS SHOWN IN PLAN
2	WINDOW	1.50 X 1.00	AS SHOWN IN PLAN
3	WINDOW	1.50 X 1.00	AS SHOWN IN PLAN
4	WINDOW	1.50 X 1.00	AS SHOWN IN PLAN

DESCRIPTION OF PROJECT
 PROPOSED CONSTRUCTION OF CLEANING MACHINE SHED ON SITE NO. 246 AT INDRA - TENDRA RD, TELUKAI - MADURAI

DATE: / /

BY:
SCALE: 1:100