

**ADUDMBARENGG.CONSULTANT**

Kotharkar Complax, F1, Near Bus-Stand  
UmarkhedTq.Umarkhed  
Dist.Yavatmal

**GajananD.Chinnawar**

B.E (Civil) MIE, FIV  
Approved Valuer F-19484  
CharteredEngineer-M-129817/2  
Mo.No.9423434693  
Govt. Approved Valuer Cat.-1/218/16-17

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**RECAPULATIONSHEET**

DATE:- / /2022


NAME OF WORK :- PROPOSED CONSTRUCTION OF HALDI POWDER MACHINE SHED  
SIZE OF SHED :- 36MX15MX10 M  
CONSTRUCTION AREA :- 544.55 SQ.M  
FLOOR AREA :- 514.10 SQ. M  
PROJECTLOCATION :- AT MZ.KINKHEDA, GUT. NO. 219, TQ.RISOD.DIST.WASHIM.  
PROMOTOR :- SANT DYANESHWAR FARMER PRODUCER CO.LTD

SR.NO	DESCRIPTION	PERCENTAGE	AMOUNT
1.	EstimatedCost(Haldi PowderMachine Shed)	AsPerEstimate	52,44,000/-
2.	AddForElectrification	3%	1,57,320/-
3.	AddFor Royalty	AsPerRoyalty Statement	1,25,960/-
4.	Lead LiftCharges	1%	52,440/-
5.	AddFor LabTestingCharges	AsPerStatement	25,000/-
6.	Total Cost		56,04,720/-
7.	Add18%forGSTChargesOrAs Applicable		10,08,850/-
8.	Total		66,13,570/-
9.	Add0.5%ForInsurance		33,068/-
10.	AddForContengency/Machine Foundation		69,736/-
11.	TotalAmount		67,16,374/-
12.	Say		67,17,000/-

(In words Sixty Seven Lakh Seventeen Thousand Rupess Only)

Note :-The Estimate IsBasedon S.S.R 2022-23

&amp; Information Provided

  
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 Umarkhed

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

14.01 12269.00 CUM 171936.54

**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

2.340 13932.00 CUM 32600.88

**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

0.000 13932.00 CUM 0.00

**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

3.900 89703.00 MT 349841.70

**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

17.609 7755.00 CUM 136556.24

**11** Providing and casting in situ cement concrete M15 of trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as finishing with minimum thickness of 1:3 cement plaster to given a smooth and even surface or roughening them of special finish is to be provided, finishing if required and curing etc. complete.

Basic Rate as per S.S.R.I. No 26.23, Page No 185

3.302 7190.00 CUM 23738.86

**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

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NAME OF WORK :- PROPOSED CONSTRUCTION OF HALDI POWDER MACHINE SHED  
 PROJECT LOCATION :- AT MZ.KINKHEDA, GUT.NO.219,TQ.RISOD.DIST. WASHIM.  
 PROMOTER :- SANT DYANESHWAR 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	81.14	239.00	CUM	19392.46
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	81.65	365.00	CUM	29801.52
3	Providing and laying in 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	7.88	5830.00	CUM	45963.72
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] I.S.456(2000) Basic Rate as per S.S.R.I. No 25.11, Page No 178	24.98	7104.00	CUM	177422.4
5	FOOTING 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] I.S.456(2000) Basic Rate as per S.S.R.I. No 25.31, Page No 179	10.82	13783.00	CUM	149132.060
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] I.S.456(2000) ]				

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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**

<b>13</b>	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	0.000	0	CUM	0
	<u>Filling</u>	313.20	599.00	CUM	187606.800
<b>14</b>	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	78.30	1454.00	CUM	113848.200
	<u>Soling</u>				
<b>15</b>	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
<b>16</b>	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	43.39	7994.00	CUM	346884.16
<b>17</b>	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	409.06	639.00	SQM	261391.097
<b>18</b>	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	278.51	271.00	SQM	75476.96
<b>19</b>	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	31.365	3375.00	SQM	105856.875
<b>20</b>	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				

1228  
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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

**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.  
Basic Rate as per S.S.R.I. No 36.10, Page No 227

409.06      104.00      SQM      42542.526

**22** 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 ]

278.51      32.00      SQM      8912.41

**23** Providing and fixing colour coated zincalume @ AZ150( min 150 gms / sq. Mt Total on each side ) profiled sheets for roofing The feed material is manufactured out of nominate 0.45 mm base metal thickness (8mt) (0.5 mm TCT ) Hi strength steel with m/s 559 Mpa yield strength, metallic hot dip coated with Aluminum zinc alloy (55% aluminium 43.4% zink 1.6% silicon) with COLOURBOND( R) steel quality super durable polyester paint coat (with inorganic pigment) The paint shall have a total coating thickness of nominal 35 um. Complising of nominate 25 um exterior coat on top surface profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan of nominal 180-250 mm center to center. The end rib shall be designed for anticapillary groove. And return leg . The feed material should have coil manufactures product details marked a regular interval including fasteners with min. fastened with min 25 um zinc tim alloy coated max head self drilling screw etc completed (Weight of profile 4.52% sqm)

10.24      119894.00      MT      1227714.56

**ROOFING AND SIDE CLADDING**  
Basic Rate as per S.S.R.I. No 38.34, Page No 236  
As Per Market Rate Quotation

**24** Providing and laying in situ cement congrete M-20 grade of trap metal for 100 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.]

1320.00      1173.00      SQM  
1320.00      778.88      SQM      1028121.60

FLOOR

522.00      828.00      SQM      432216.000

**25** Providing groove cutting 25 milli meters X 6 milli meters in cement concreete flooring & fitting te gap of expansion joints with bituman of 30/40 grade including cleaning the groove and prepanig the same or filing etc . Complete as directed

144.50      60.00      RMT      8670

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**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

27.91      5308.00      SQM      148133.010

**27** Providing fixing metacoulour, 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 ]

36.30      1000.00      RMT      36300.00

**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

6.00      9702      Nos      58212


**29** Providing & 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      5243822.58  
SAY RS      5244000

IN WORDS:  
FIFTY TWO LAKH FORTY FOUR THOUSAND RUPEES ONLY

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	25275.00
				SAY RS	25,000/-

  
**Gajanan D. Ch...**  
B.E. (CIVIL ENGRG.)  
Struct. Engr.  
Chartered Engr. (M-1299172)  
Govt Approved Valuer (Cat-1/215)  
Ko:harkar Complex F1  
Near Bus Stand Umardhad

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NAME OF WORK :- PROPOSED CONSTRUCTION OF HALDI POWDER MACHINE SHED  
 PROJECT LOCATION :- AT MZ.KINKHEDA, GUT.NO.219,TQ.RISOD.DIST. WASHIM.  
 PROMOTER :- SANT DYANESHWAR FARMER PRODUCER CO.LTD


SR.NO

ROYALTY STATEMENT

ITEM NO.	QUANTITY	PER CU.M	TOTAL	RATE	AMOUNT
ITEM NO.03	SAND	7.88			
	METAL	7.88	0.47	3.70	879.12
ITEM NO.04	SAND	24.98	0.94	7.41	1601.29
	METAL	24.98	0.425	10.62	2520.04
ITEM NO.05	SAND	10.82	0.85	21.23	4590.15
	METAL	10.82	0.425	4.60	1091.55
ITEM NO.06	SAND	14.01	0.85	9.20	1988.21
	METAL	14.01	0.425	5.95	1413.36
ITEM NO.07	SAND	2.340	0.85	1.99	429.98
	METAL	2.340	0.425	0.99	236.06
ITEM NO.08	SAND	0	0.85	0.00	0.00
	METAL	0	0.425	0.00	0.00
ITEM NO.10	SAND	17.609	0.32	5.63	1337.55
	METAL	3.302	0.85	2.81	606.75
ITEM NO.11	SAND	313.2		313.2	67707.58
	METAL	3.302	0.425	1.40	333.11
ITEM NO.13	MURUM	78.3		78.3	16926.89
	MURUM	43.39	0.32	13.88	3295.83
ITEM NO.14	SAND				
ITEM NO.16	SAND				
ITEM NO.17	SAND				

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ITEM NO.18	SAND	409.06	0.033	13.50	237.37	3204.25
	SAND	278.51	0.015	4.18	237.37	991.65
ITEM NO.24	SAND	52.20	0.42	21.92	237.37	5204.10
	METAL	52.2	0.8	41.76	216.18	9027.6768
					<b>TOTAL</b>	<u>125959.54</u>
					<b>SAY RS</b>	125960

  
Wajanan D. S. Ingavut  
B.E. (Civil) MIE. FIV  
Struct. Engr.  
Chartered Engr (M-129817/2  
Govt. Approved Valuer (Cat-1/218)  
Kornkar Complex F1  
Near Bus Stand Umarkhad

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NAME OF WORK :- PROPOSED CONSTRUCTION OF HALDI POWDER MACHINE SHED  
 PROJECT LOCATION :- AT MZ.KINKHEDA, GUT.NO.219,TQ.RISOD.DIST. WASHIM.  
 PROMOTER :- SANT DYANESHWAR 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	18	1.80	2.10	1.00	68.04	
		6	1.50	1.20	1.20	13.10	
		Total Quantity					81.14
						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	18	1.80	2.10	1.20	81.65	
		Total Quantity					81.65
							CUM
3	Providing and laying in 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	18	1.80	2.10	0.10	6.80	
		6	1.50	1.20	0.10	1.08	
		Total Quantity					7.88
						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	18	1.50	1.65	0.50	22.28	
		6	1.20	1.00	0.30	2.70	
		Total Quantity					24.98
						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 C18

18	0.35	0.60	2.60	9.83
6	0.30	0.23	2.40	0.99
				10.82
				CUM

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

**FOR PLINTH BEAM**

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

12	5.60	0.23	0.60	9.274
6	4.75	0.23	0.60	3.933
6	1.3	0.23	0.45	0.807
		<b>Total Quantity</b>		<b>14.01</b>
				CUM

**PROJECTION BEAM**

**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

3	4	1.3	0.150	2.340
		<b>Total Quantity</b>		<b>2.340</b>
				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**

0	0.00	0.00	0.00	0.000
		<b>Total Quantity</b>		<b>0.000</b>
				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. ]

Footing

AS PER CALCULATION

24.98	70.000	1748.25
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Column			
Beam	10.82	80.000	865.60
Slab	14.01	80.000	1121.11
Chajja	2.34	70.000	163.80
	0.000	50	0

AS PER CALCULATION

A) H.Y.S.D. BAR.  
B) MILD STEEL BAR.

ITEM NO. QTY. 3898.76

Total Quantity 3.900  
MT

**10** Providing 2nd class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/in plinth of external walls including bailing out water, striking joints on unexposed faces, racking out joints on exposed faces and watering complete.

beam...Long side	12	5.60	0.23	0.80	12.365
beam...Short side	6	4.75	0.23	0.80	5.244
			<b>Total Quantity</b>		<u>17.609</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	12	5.60	0.23	0.15	2.318
beam...Short side	6	4.75	0.23	0.15	0.983
			<b>Total Quantity</b>		<u>3.302</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

Total Quantity 0.000  
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	36.00	14.50	0.60	313.20
			<b>Total Quantity</b>		<u>313.20</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	36.00	14.50	0.15	78.30
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**5** Filling in plinth and floors with approved excavated materials in 15 cm. to 20 cm. layers including watering and compaction complete.

Total Quantity 78.30  
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 ]

Total Quantity 0.00  
CUM

Long side  
Short side

12	5.60	0.23	2.60	40.186
6	4.75	0.23	2.60	17.043
Total Quantity				<u>57.229</u>
				CUM
3	3.23	0.23	3.05	6.798
17	1.50	0.23	1.20	7.038
				<u>13.84</u>
Total Quantity				<u>43.39</u>
				CUM

Deduction:-  
Rolling Shutter  
Window

**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  
Window chajja

2	36.00	-	4.05	291.60
2	15.00	-	4.05	121.50
17	1.50		1.00	25.500
				<u>438.600</u>
Rolling Shutter half	1.5	3.23	3.05	14.777
Window half	8.0	1.50	1.23	14.760
				<u>29.54</u>
Total Quantity				<u>409.06</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	36.00		3.05	219.6
2	14.50		3.05	88.450
Total Quantity				<u>308.050</u>
				SQM
Rolling Shutter half	1.5	3.23	3.05	14.777
Window half	8.0	1.50	1.23	14.760
				<u>29.54</u>
Total Quantity				<u>278.51</u>
				SQM

Deduction:-  
Rolling Shutter half  
Window half

**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

		17	1.50		
				Total Quantity	1.23 <u>31.395</u> <u>31.395</u> SQM
<b>20</b>	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	-	Total Quantity	<u>409.06</u> <u>409.06</u>
<b>21</b>	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	-	Total Quantity	<u>278.51</u> <u>278.51</u> SQM
<b>22</b>	Providing and fabricating structural steel work in PEB sections, fixed with connecting plates or GALVAL PURLIN 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 Total Quantity	<u>10.240</u> <u>10.240</u> MT
<b>23</b>	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 (2mt) (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 inorganic pigment) The paint shall have a total coating thickness of nominal 35 um. Compising 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	8.00	36.00	576.00
	<u>Side Cladding</u>	2	36.00	7.00	504.00
		2	15.00	7.00	210.00
		2	15.00	1.00	30.00
				Total Quantity	<u>1320.00</u> SQM
<b>24</b>	Providing and laying in situ cement congret M-20 grade of trap metal for 100 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	36.00	14.50	<u>522.00</u>
			<b>Total Quantity</b>	<u>522.00</u>
				<b>SQM</b>

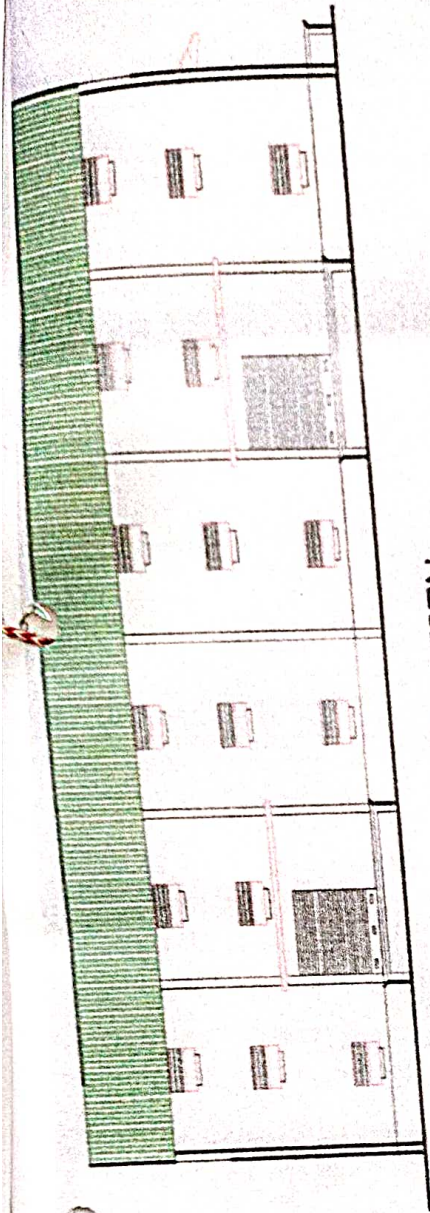
<b>25</b> Providing groove cutting 25 milli meters X 6 milli meters in cement concrete flooring & fitting te gap of expansion joints with bituman of 30/40 grade including cleaning the groove and preparig the same or filing etc . Complete as directed	2	36.00		72.00
	5	14.5		<u>72.5</u>
				<u>144.5</u>
				<b>RMT</b>

<b>26</b> 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	3	3.05	3.05	<u>27.91</u>
			<b>Total Quantity</b>	<u>27.91</u>
				<b>SQM</b>

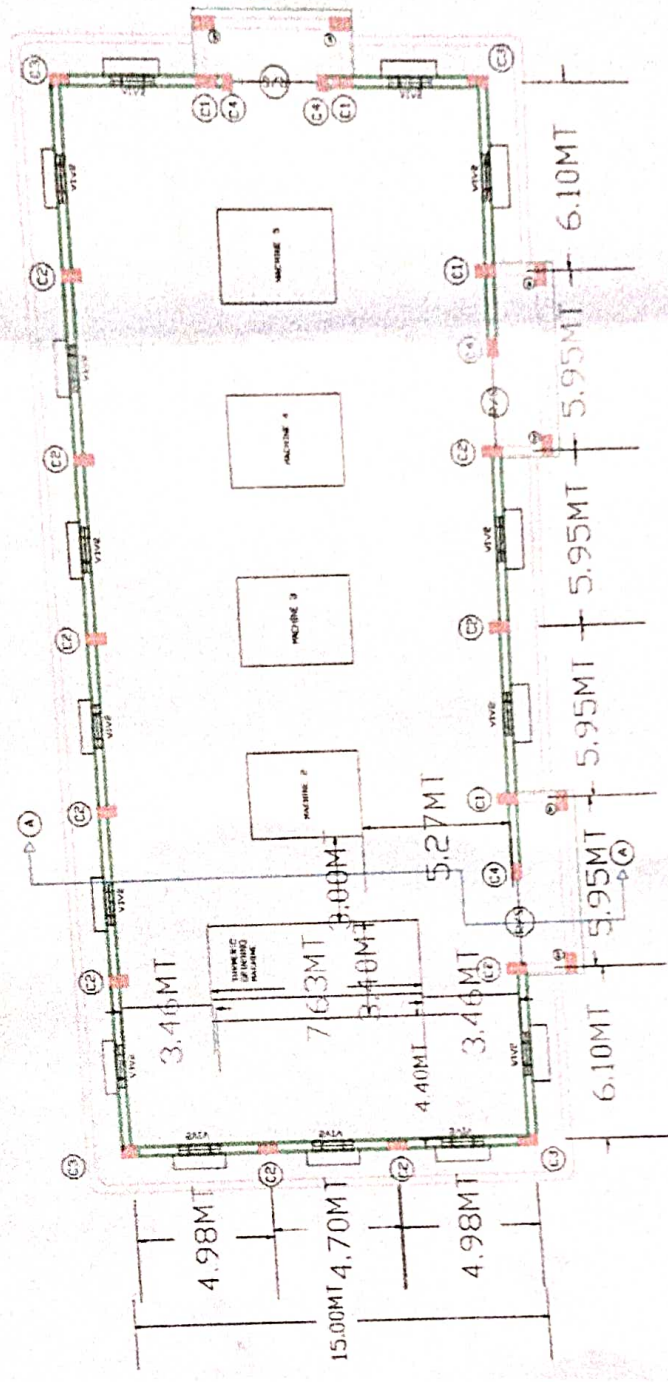
<b>27</b> Providing fixing metacoulour, epoxy coating, to match G.I sheeting of 22BWG (1mm) over the ridge ,hip or valleyfor meta colour corrugated epoxy sheet roofign including fastening with galvanised iron screw and bolt and lead and bitumen washer etc. complete. [Spec.No. :Bd.R6      Page No.452 ]		36.30		RMT	36.30
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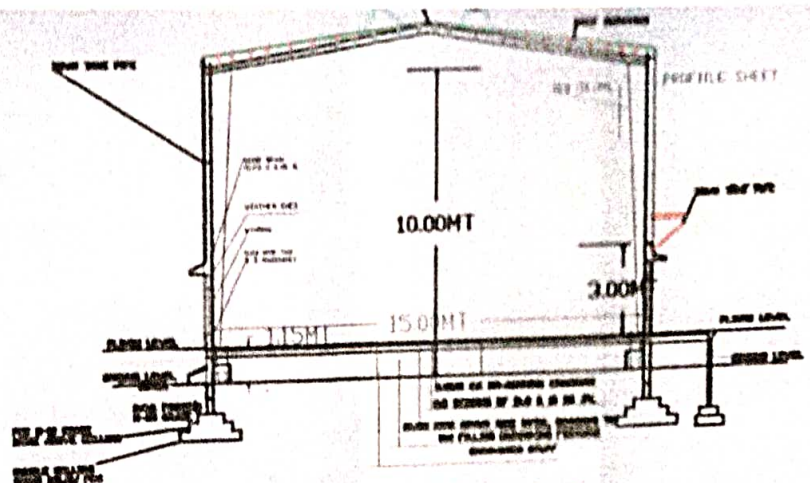
<b>28</b> Providing & fixing Turbo Ventilator of 24 inches throat doiameter of alluminium and of approved make including fixing on dome manufactured from same material used for roofing all necessary fittings etc Complete ( Prior approval of sample and brand by Engineer in charge is necessary before use ) As direced by Engineer - In - charge		6		Nos	6
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<b>29</b> Providng & fixing M.S. Channel ISMC 150 X 75 milimeters 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		kg	365
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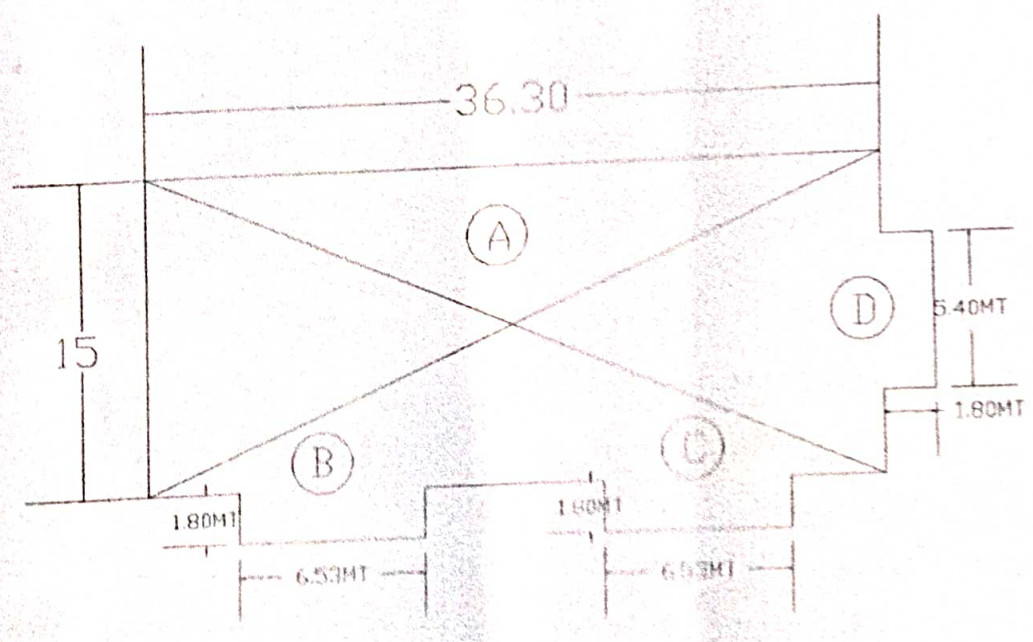


# ELEVATION





SECTION A,A



BLOCK PLAN

TYPE	SIZE	NO	REMARK
C1	30X45	80	LONG WALLS
C2	30X45	8	GABLE WALLS
C3	30X45	4	GABLE WALLS
C4	15X35	10	TO BE POSTED DB RS PANELLS
C5	57X30	10	FIR PLATFORMS BELOW BEAM

**SCHEDULE OF ROLLING SHUTTERS/VENTILATORS**

TYPE	SIZE (IN CM)	NO	DISCRIPTION
RS	100 X 60	3	PULL AND PUSH TYPE FIXED FROM
V1	60 X 60	10	STEEL VENTILATORS FULLY GLAZED SHUTTERS CROSS HINGED 6MM SQ. IS SVG TO BE FIXED BY 15MMX FLAT & 12MM SQ. BARS (CHRS.) VERTICAL POSITION & 10CHS CVC TO FRAME FROM OUTSIDE.
V2	100 X 60	21	12MM SQ. BARS (1 NOS.) IN VERTICAL, P & 10CHS CVC FIXED TO FRAME FROM D
TURBO VENTILATOR		12	

AREA STATEMENTS:  
 TOTAL PLOT AREA : SQM  
 PROPOSED CONS. AREA : 544.50 SQM  
 TOTAL CONS FLOOR AREA : 514.1 SQM  
 EXISTING STRUCTURAL AREA : SQM

SCHEDULE OF OPENING

S.NO	TYPE	SIZE	DISCRIPTION	MS BARS (Q) NOS	MS VENTILATOR (S) NOS
1	RS	100X60			
2	V1 V2	60X60			

NOTE: ROLLING SHUTTERS PROPOSED  
 WITH 6MM SQUARE GLASS TO BE 200MM  
 WIDE TOP 500MM EXISTING SHOWN

**BRIEF SPECIFICATION**

ROLLING SHUTTERS:  
 TYPE: PULL AND PUSH TYPE  
 MATERIAL: STEEL  
 FINISH: PAINTED

**DESCRIPTION OF PROJECT**

PROPOSED CONSTRUCTION OF 100 IN FLOOR, 3000 IN H, 10.50X20.00 FT  
 SANI BANGALOW (APPROX) PROPOSED IN C/10, AT APPOKUDA,  
 TAL. PERIYAR, DIST. SIKKIDU, CANNARA DIST.

DATE: \_\_\_\_\_  
 NAME OF ARCHITECT: E. B. CHANDRAN  
 ADDRESS: \_\_\_\_\_

40MT  
180MT

BUILDING SIZE: PROPOSED SQ.MT. 544.50  
 MAIN BUILDING: 36.30M X 15.00M  
 NO. 2 CORR. X 3.04M  
 TOTAL PLATEFORMS AREA 23.19  
 TOTAL SQ. M. X 1 NOS.  
 15.40M X 3.00M  
 TOTAL PLATFORM AREA 49.98  
 12.00 SQ. M. X 4 NOS.

GROSS B/LUP AREA 619.69 SQ. M.

