

583/B, MARKET YARD, GULTEKADI, PUNE-411037

CAPACITY						1800
SIZE	OUTER	1 X	42.492	X	22.392	951.48
	INNER	1 X	41.79	X	21.692	906.55
LONG WALLS	2					
SHORT WALLS	2					
FOUNDATION DEPTHS						Av Depth
EARTH SOIL 0 TO 1.50						1.30
EARTH SOIL 1.50 to 3.00						0.00
EARTH SOIL 3.00 to 5.00						0.00
H.M.lift up to 1.5m						0.40
H.M.lift up to 1.5m to 3m						0.20
H.M.& BOULDER up to 1.50m						0.00
H.M.& BOULDER 1.50mtr to 3.00mtr						0.10
SOFT ROCK						0.00
HARD ROCK						0.00
					TOTAL	2.00
CUTTING IN PLINTH (Provision)						0.20
asper Site condition						

Column Middle C1	2	X	6	X	2.80	X	2.30		
Column Corner C3	2	X	2	X	2.30	X	2.30		
Column Gable Middle C2	2	X	2	X	2.10	X	1.80	Big L/W	6.954
								Big L/W end	6.954
								Small L/W	7.205
Column Platform	2	X	6	X	1.30	X	1.30	S/W	7.205
Ex. Ground Beam PANEL									
C1-C1 middle	2	X	5	X	4.354	X	0.600		4.354
C3-C1 end	2	X	2	X	4.354	X	0.600		4.354
C2-C3 END WALL	2	X	2	X	4.205	X	0.600		
C2-C2 M	2	X	1	X	4.205	X	0.600	4.205	7.222 C/C
APRON long	1	X	2	X	45.59	X	1.28		7.222 C/C
APRON short	1	X	2	X	22.93	X	1.28		
Column Nos. & Size									
Column C1	2	X	6	X	0.66	X	0.320		
Column No.C2	2	X	2	X	0.55	X	0.660		
Column No. C3	2	X	2	X	0.560	X	0.310		
Column No.Platform	2	X	6	X	0.30	X	0.30		

PANELS										
C1-C1 middle	2	X	5	X	6.63	X	0.35	6.63	6.954	C/C
C3-C1 end	2	X	2	X	6.519	X	0.35	6.519	6.954	
C2-C3 END WALL	2	X	2	X	6.72	X	0.35	6.720	7.205	
C2-C2 M	2	X	1	X	6.895	X	0.35	6.895	7.205	

583/B, MARKET YARD, GULTEKADI, PUNE-411037

NAME OF WORK :- CONSTRUCTION OF 1/1800 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS AT TIOSA, DIST. AMRAVATI.

Part - A :- Civil work

S.W. I - W.H.Building 1/1800 M T

MEASUREMENT SHEET

Item Nos & Description of Items	NO.S			LENGTH	BREDTH	DEPTH / HIGHT	TOTAL Unit QUANTITY
	1	X	2				
1 Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .							Sqm
	1	X	1	X	63.00	X	43.00
							= 2709.00
						TOTAL	= 2709.00
						SAY	= 2709.00
2 Excavation for foundation in earth, soil of all types , sand, gravel and soft murum, including removing the cum excavated material up to adistance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical means							
Column footing							
Column C1	2	X	6	X	2.80	X	2.30
Column No. C3	2	X	2	X	2.30	X	2.30
Column No.C2 qable	2	X	2	X	2.10	X	1.80
Column No.Platform	2	X	6	X	1.30	X	1.30
For Ground Beam PANEL							
C1-C1 middle	2	X	5	X	4.354	X	0.9
C3-C1 end	2	X	2	X	4.354	X	0.9
C2-C3 END WALL	2	X	2	X	4.2	X	0.9
C2-C2 M	2	X	2	X	4.205	X	0.9
APRON long	1	X	2	X	45.59	X	1.28
APRON short	1	X	2	X	22.932	X	1.28
						Total	330.33
						say	331.00
3 Excavation for foundation in earth, soils of all types , sand,gravel and soft murum, including removing the cum excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means							
Provision							say = 1.00
4 Excavation for foundation in hard murum including removing the excavated material upto distance of 50 cum metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means							
Column footing							
Column C1	2	X	6	X	2.8	X	2.3
Column No. C3	2	X	2	X	2.3	X	2.3
Column No.C2 END	2	X	2	X	2.1	X	1.8
Column No.Platform	2	X	6	X	1.30	X	1.30
						Total	53.54
						say	54.00
5 Excavation for foundation in hard murum including removing the excavated material upto distance of 50 cum metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift 1.50 to 3.00 m) By Mechanical Means							
Column footing							
Column C1	2	X	6	X	2.8	X	2.3
Column No. C3	2	X	2	X	2.3	X	2.3
Column No.C2 END	2	X	2	X	2.1	X	1.8
							= 15.46
							= 4.23
							= 3.02

say = 23.00

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|-----------|------------|-------------|
| Provision | Total | 0.00 |
| | say | 1.00 |

- | | | | | | | | | | | | |
|--------------------|---|---|---|---|-----|---|-----|---|-------|---|--------------|
| Column C1 | 2 | X | 6 | X | 2.8 | X | 2.3 | X | 0.10 | = | 7.73 |
| Column No. C3 | 2 | X | 2 | X | 2.3 | X | 2.3 | X | 0.10 | = | 2.12 |
| Column No.C2 END | 2 | X | 2 | X | 2.1 | X | 1.8 | X | 0.10 | = | 1.51 |
| Column No.Platform | 2 | X | 6 | X | 1.3 | X | 1.3 | X | 0.00 | = | 0.00 |
| Provision | | | | | | | | | Total | | 11.36 |
| | | | | | | | | | say | | 12.00 |

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|-----------|-------|-------------|
| Provision | | 1.00 |
| | Total | 1.00 |
| | Sav | 1.00 |

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|--------------------|---|---|---|---|-----|---|-----|---|-------|---|-------------|
| Column C1 | 2 | X | 6 | X | 2.8 | X | 2.3 | X | 0.10 | = | 7.73 |
| Column No. C3 | 2 | X | 2 | X | 2.3 | X | 2.3 | X | 0.10 | = | 2.12 |
| Column No.C2 END | 2 | X | 2 | X | 2.1 | X | 1.8 | X | 0.10 | = | 1.51 |
| Column No.Platform | 2 | X | 6 | X | 1.3 | X | 1.3 | X | 0.10 | = | 2.03 |
| | | | | | | | | | Total | | 13.38 |
| | | | | | | | | | Total | | 13.38 |
| | | | | | | | | | say | | 1.00 |

- | | | | | | | | | | | |
|---|---|---|---|------|---|------|---|-------|---|-------------|
| 1 | X | 1 | X | 0.00 | X | 0.00 | X | 0.00 | = | 0.00 |
| | | | | | | | | Total | = | 0.00 |
| | | | | | | | | Say | = | 1.00 |

- SAY = 1.00

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|---|---|---|---|-------|---|-------|---|-------|---|--------------|
| 1 | X | 1 | X | 41.79 | X | 21.69 | X | 0.10 | = | 90.66 |
| | | | | | | | | TOTAL | = | 90.66 |
| | | | | | | | | SAY | = | 91.00 |

- | | | | | | | | | | | |
|-------|---|---|---|-------|---|-------|---|------|---|------|
| 1 | X | 1 | X | 41.79 | X | 21.69 | X | 0.00 | = | 0.00 |
| TOTAL | | | | | | | | | = | 0.00 |

- 14 Providing and fixing **25mm diameter steel anchor dowel** in hard rock including drilling hole of 32 mm diameter Nos up to 0.75 mtrs depth, placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete.

Provision	0.5	X	10	X	4.00	X	1.00	X	1.00	=	20.00
TOTAL										=	20.00

- 15 **Construction of dry lean cement concrete** Sub- base over a prepared sub-grade with coarse and fine Cum aggregate (VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of subgrade surface if required etc. complete.(Crushed sand VSI Grade)

Bed concrete in WH.	1	X	1	X	41.79	X	21.69	X	0.10	=	90.66
Total										=	90.66
Say										=	91.00

- 16 Providing and laying Cast in situ/Ready **Mix cement concrete in M-10** of trap/ granite/ quartzite/ gneiss metal for cum foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete With fine aggregate (Crushed sand VSI Grade)

Column footing

Column C1	2	X	6	X	2.8	X	2.3	X	0.10	=	7.73
Column No. C3	2	X	2	X	2.3	X	2.3	X	0.10	=	2.12
Column No.C2 END	2	X	2	X	2.10	X	1.80	X	0.10	=	1.51
Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.10	=	2.03

For Ground Beam PANEL

C1-C1 middle	2	X	5	X	6.634	X	0.9	X	0.10	=	5.97
C3-C1 middle end	2	X	2	X	6.519	X	0.9	X	0.10	=	2.35
C3-C2	2	X	2	X	6.720	X	0.9	X	0.10	=	2.42
C2-C2 E	2	X	1	X	6.895	X	0.9	X	0.10	=	1.24
APRON long	1	X	2	X	45.59	X	1.28	X	0.10	=	11.67
APRON short	1	X	2	X	22.932	X	1.28	X	0.10	=	5.87
Total										=	42.90
say										=	43.00

- 17 Providing **uncoursed rubble masonry** of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in cum foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.(Crushed sand VSI Grade)

APRON long	1	X	2	X	45.39	X	0.45	X	0.35	=	14.30
APRON short	1	X	2	X	24.39	X	0.45	X	0.35	=	7.68
Total										=	21.98
say										=	22.00

- 18 Providing **second class Burnt Brick** masonry with conventional/ I.S. type bricks in cement mortar 1:6 in cum **foundations** and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.(Crushed sand VSI Grade)

For PANEL

C1-C1 middle	2	X	5	X	6.63	X	0.35	X	1.05	=	24.38
C3-C1 middle end	2	X	2	X	6.52	X	0.35	X	1.05	=	9.58
C3-C2	2	X	2	X	6.72	X	0.35	X	1.05	=	9.88
C2-C2 E	2	X	1	X	6.90	X	0.35	X	1.05	=	5.07
APRON long	1	X	2	X	43.69	X	0.23	X	0.65	=	13.06
APRON short	1	X	2	X	22.43	X	0.23	X	0.65	=	6.71
Deductions for											
Munim columns	2	X	9	X	0.350	X	0.230	X	1.20	=	-1.74

Total = 66.94
say = **67.00**

- 19 Providing and fixing in position **TMT - FE - 500 bar reinforcement** of various diameters for R.C.C. pile caps, MT 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 complete.

Footing (80kg/m3)	59.00				80						4.72
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Column , Beam &Platform(110kg/m3)	111.00	110	12.21
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- 20 Providing and laying in situ **/Ready Mix cement concrete M-25** of trap / granite /quartzite/ gneiss metal for cum **R.C.C. work in foundations** like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete. With fine aggregate (**Crushed sand VSI Grade**)

Column C1	2	X	6	X	2.50	X	2.00	X	0.60	=	36.00
Column No. C3	2	X	2	X	2.00	X	2.00	X	0.60	=	9.60
Column No.C2 END	2	X	2	X	1.80	X	1.50	X	0.60	=	6.48
Column No.Platform	2	X	6	X	1.00	X	1.00	X	0.50	=	6.00
									Total		58.08
									say		59.00 Cum

- 21 Providing and laying Cast in situ/Ready Mix **cement concrete M-25** of trap / granite /quartzite/ gneiss metal for cum **R.C.C. columns** as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel). **(Crushed sand VSI Grade)**

Column up to plinth									Av.		
Column C1	2	X	6	X	0.66	X	0.320	X	2.50	=	6.34
Column No.C2	2	X	2	X	0.55	X	0.660	X	2.50	=	3.63
Column No. C3	2	X	2	X	0.560	X	0.310	X	2.50	=	1.74
Column No.Platform	2	x	6	X	0.300	X	0.300	X	0.70	=	0.76
Munim columns	2	X	9	X	0.35	X	0.35	X	1.80	=	3.97
Column above plinth											
Column C1	2	X	6	X	0.23	X	0.320	X	3.00	=	2.65
Column No.C2	2	X	2	X	0.23	X	0.660	X	3.00	=	1.82
Column No. C3	2	X	2	X	0.230	X	0.310	X	3.00	=	0.86
Munim columns	2	X	9	X	0.230	X	0.230	X	3.00	=	2.86
Dummy col at rollling shutter	2	X	6	X	0.23	X	0.23	X	3.00	=	1.90
									Total		26.51
									say		27.00

- 22 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for cum **R.C.C. beams and lintels** as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). **(Crushed sand VSI Grade)**

C1-C1 middle	2	X	5	X	6.634	X	0.35	X	0.60	=	13.93
C1-C3 end wall	2	X	2	X	6.519	X	0.35	X	0.60	=	5.48
C3-C2	2	X	2	X	6.720	X	0.35	X	0.60	=	5.64
C2-C2	2	X	1	X	6.895	X	0.35	X	0.60	=	2.90

C1-C1 middle	2	X	5	X	6.634	X	0.35	X	0.15	=	3.48
C1-C3 end wall	2	X	2	X	6.519	X	0.35	X	0.15	=	1.37
C3-C2	2	X	2	X	6.720	X	0.35	X	0.15	=	1.41
C2-C2	2	X	1	X	6.895	X	0.35	X	0.15	=	0.72

C1-C1 middle	2	X	7	X	1.75	X	0.23	X	0.15	=	0.85
C1-C3 end wall	2	X	2	X	1.75	X	0.23	X	0.15	=	0.24

C1-C1 middle	2	X	5	X	6.634	X	0.23	X	0.45	=	6.87
C1-C3 end wall	2	X	2	X	6.519	X	0.23	X	0.45	=	2.70
C3-C2	2	X	2	X	6.720	X	0.23	X	0.45	=	2.78
C2-C2	2	X	1	X	6.895	X	0.23		0.45	=	1.43

PARTITION SUMMARY										
NAME	ROWS	INDEX	INDEX ROWS	INDEX ROWS	INDEX ROWS	INDEX ROWS	INDEX ROWS	INDEX ROWS	INDEX ROWS	INDEX ROWS
PB2	3	X	2	X	1.90	X	0.23	X	0.60	= 1.57
PB1	2	X	3	X	6.75	X	0.23	X	0.60	= 5.59
PB3	2	X	3	X	6.750	X	0.35	X	0.60	= 8.51
OFFSET	2	X	3	X	6.750	X	0.205	X	0.15	= 1.25
OFFSET	2	X	6	X	1.900	X	0.205	X	0.15	= 0.70
									Total	67.41
									say	68.00

- 23 Providing and laying Cast in situ/**Ready Mix cement concrete M-25** of trap/ granite/ quartzite/ gneiss metal for Cum **R.C.C. chajja** as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (**Crushed sand VSI Grade**)

Ventilators - V1 Long side	2	x	8	x	2.05	x	0.450	x	0.075	=	1.11
										Total	1.11
											2.00

- 24 Providing and laying Cast in situ/**Ready Mix cement concrete M-25** of trap/ granite / quartzite/ gneiss metal for **R.C.C. slabs and landings** as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)

PLATFORM SLAB	2	X	3	X	6.10	X	1.870	X	0.20	=	13.69
										Total	13.69
										say	14.00

- 25 Providing **second class Burnt Brick masonry** with conventional/ I.S. type bricks in cement mortar 1:6 in cum **superstructure** including striking joints, raking out joints, watering and scaffolding etc. Complete. With fine aggregate (Crushed sand VSI Grade)

For PANEL

C1-C1 middle	2	X	5	X	6.634	X	0.23	X	2.55	=	38.91
C3-C1 middle end	2	X	2	X	6.519	X	0.23	X	2.55	=	15.29
C3-C2	2	X	2	X	6.720	X	0.23	X	2.55	=	15.77
C2-C2 E	2	X	1	X	6.895	X	0.23	X	2.55	=	8.09

Deduction for

Munim columns	2	X	9	X	0.23	X	0.23	X	2.55	=	2.43
Rolling shutters	2	X	3	X	2.10	X	0.23	X	2.55	=	7.39
V1	2	X	16	X	0.75	X	0.23	X	0.75	=	4.14
V1, Lintel										=	
C2 near R.S.										=	1.90
Bed block below V1 ,etc	2	X	16	X	0.75	X	0.23	X	0.10	=	0.55
										Total deduction	16.41
										net	61.64
										say	62.00

- 26 Providing and laying Cast in situ/**Ready Mix cement concrete in M15** of trap/ granite/quartzite/gneiss metal for cum bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. 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.). complete. With fine aggregate (**Crushed sand VSI Grade**)

Below V1	2	X	16	X	0.75	X	0.23	X	0.1	=	0.55
At fire bucket	2	X	2	X	0.20	X	0.20	X	0.35	=	0.06
ladder bedblock	1	X	4	X	0.20	X	0.20	X	0.35	=	0.06
										Total	0.66
										say	1.00

- 27 Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru sqm finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge

Outside

Long wall	1	X	2	X	42.49	X	3.00			=	254.95
short wall	1	X	2	X	22.39	X	3.00			=	134.35
R S Jams	2	X	3	X	7.20	X	0.23			=	9.94
Weather sheds over											
V1 top, bottom	2	x	16	x	2.05	x	0.45			=	29.52
Sides	2	X	16	X	0.450	X	0.08			=	1.08
										Total	429.84

Deduction

rolling shutter	2	X	3	X	2.1	X	2.5			=	31.50
										Dedu.	31.50
										Net	398.34
										Say	399.00

- 28 Providing cement plaster **20 mm thick in C.M. 1:4 inside to the W.H. bldg.** with **smooth neeru finish** to sqm concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge (**Crushed sand VSI Grade**)

Inside

Long wall	1	X	2	X	41.79	X	3.23	=	269.98
Short wall	1	X	2	X	21.69	X	3.23	=	140.13
Deduction								Total	410.11
rolling shutter	2	X	3	X	2.1	X	2.5	=	31.50
								Dedu.	31.50
								Net	378.61
								Say	379.00

- 29 Providing cement plaster **20mm thick in C.M. 1:4 outside** to the W.H. bldg. With slurry cement smooth finish sqm to concrete or brick surface in all positions including scaffolding curing etc. complete as directed (Crushed sand VSI Grade)

Outside

Apron L/W	1	X	2	X	45.39	X	0.60	=	54.47
S/W	1	X	2	X	24.39	X	0.60	=	29.27
Gutter L/W	1	X	2	X	43.69	X	1.95	=	170.40
S/W	1	X	2	X	22.43	X	1.95	=	87.48
Long wall plinth	1	X	2	X	42.492	X	1.20	=	101.98
short wall plinth	1	X	2	X	22.392	X	1.20	=	53.74
								Total	497.35
								Say	498.00

- 30 Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including sqm scaffolding & preparing the surface by brushing & brooming down complete.

Inside

Long wall	1	X	2	X	41.792	X	3.23	=	269.98
Short wall	1	X	2	X	21.692	X	3.23	=	140.13
Deduction								Total	410.11
rolling shutter	2	X	3	X	2.1	X	2.5	=	31.50
								Dedu.	31.50
								Net	378.61
								Say	379.00

- 31 Providing and applying two coats of exterior acrylic emulsion paint confirming to corresponding I.S. of approved sqm manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete.

Outside

Long wall	1	X	2	X	42.49	X	4.25	=	361.18
short wall	1	X	2	X	22.39	X	4.25	=	190.33
R S Jams	2	X	4	X	7.20	X	0.35	=	20.16
Weather sheds over									
V1 top, bottom	2	x	16	x	2.05	x	0.45	=	29.52
Sides	2	X	16	X	0.45	X	0.075	=	1.08
								Total	602.27
Deduction rolling shutter	2	X	3	X	2.1	X	2.5	=	31.50
								Dedu.	31.50
								Net	570.77
								Say	571.00

- 32 Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement sqm float, filling joints with slurry,curing,moulding edges, polishing and cleaning etc. complete.

Inside Below V1	2	x	16	x	0.75	X	0.20	=	4.80
								Total	4.80
								Say	5.00

- 33 Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines sqm including preparing the surfaces & primer coat etc. complete.

stack lines

Long	1	X	24	X	9.00	X	0.10	=	21.60
Short	1	X	24	X	8.00	X	0.10	=	19.20
Long middle	1	X	6	X	8.00	X	0.10	=	4.80
Short middle	1	X	6	X	3.40	X	0.10	=	2.04
								Total	47.64
								Say	48.00

- 34 Providing & applying oilpainting name of M S W C with three coat with background of approved colour & shade sqm including scaffolding etc complete.

Qty	1	X	1	X	20.00	X	1.00	=	20.00
								Total	20.00
								Say	20.00

- 35 Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by sqm Engineer in charge with all necessary aluminium sections with powder coating including necessary fixtures and fastening with 5 mm thick float glass etc. complete. (Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered for only aluminium ventilators) and with G.I. wiremesh of 18 Gauge, 6 mm square mesh sandwiched between grill of 12 mm sq. bars in vertical directions at 10 cms c/c and frame of 19 mm X 3 mm thick M.S. flat with approved quality and type fixtures, fittings including red oxide & oilpainting three coats.As per detailed drawing and as directed.

V1	2	x	16	x	0.75	X	0.75	=	18.00
								Total	18.00
								Say	18.00

- 36 Providing & fixing steel rolling shutter fabricated from 20 gauge steel laths with side guides, bottom rails, sqm brackets of 10 G.M.S. sheet door suspension shaft, rolling springs, locking arrangements with not less than 6mm thick strip and central lock as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out of 6mm thick flats 4 no's, holdfast patti 6 nos, for each side guide with 12 concrete nails / fastener, including applying three coats of oil paint of approved color & shade etc. complete As directed by Engineer-in Charge.

Qty	2	x	3	x	2.10	x	2.55		32.13
								Total	32.13
								Say	33.00

- 37 Providing & fixing steel grill rolling shutter with fabricated from 20 gauge steel laths with side guides, bottom sqm rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling springs, locking arrangements with not less than 6mm thick strip and central lock as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out of 6mm thick flats 4 no's, holdfast patti 6 nos, for each side guide with 12 concrete nails / fastener, including applying three coats of oil paint of approved color & shade etc. complete (Grill portion size should be 2.10 M x 1.70 M) As directed by Engineer-in Charge.

Qty	2	x	3	x	2.10	x	2.55		32.13
								Total	32.13
								Say	33.00

- 38 Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 sqm mm thickness reinforced with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channe l section of depth and thick ness not less than 65mm and3.15mm respectively with hold fast arrangements, M.S.Bracket plate300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover ofM.S.sheet notl ess than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer and 3 Coat of oil painting including central lock, MS Locking patti 3mm thick etc.complete. (With mechanical gear)

Qty	0	x	2		3.00	x	3.50		0.00
								Total	1.00
								Say	1.00

- 39 Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting cum etc. complete as directed.

Qty received from excavation								Total	10.00
Provision								Say	10.00

- 40 Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [cum Only compacted thickness is payable]

Main bldg.	1	X	1	X	41.79	X	21.69	X	0.80	=	725.24
Back filling											233.71
Apron											
Long	1	X	2	X	43.23	X	0.37	X	0.45	=	14.40
Short	1	X	2	X	21.69	X	0.37	X	0.45	=	7.22
Below apron& gutter											
Long	2	X	2	X	45.392	X	1.5	X	0.45	=	122.56
Short	2	X	2	X	24.392	X	1.5	X	0.45	=	65.86
Deduction for											
O.S.metal in plinth											
Long	1	X	2	X	41.79	X	0.60	X	0.60	=	-30.09
Short	1	X	2	X	20.49	X	0.60	X	0.60	=	-14.75
								Total			1124.14
								Say			1124.14

- 41 Compacting the hard murum side widths including laying in layers on each side with vibratory roller including sqm artificial watering etc. complete.

Main bldg.	1	X	4	X	41.79	X	21.69			=	3626.21
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Deduction for O.S.metal in plinth

Long	1	X	2	X	41.79	X	0.60	=	-50.15
Short	1	X	2	X	20.49	X	0.60	=	-24.59
Total Say									3551.47
									3552.00

- 42 Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal cum 35% with sand or stone chips spreading & leveling handpacking complete.

Main bldg.	1	X	1	X	41.79	X	21.69	X	0.20	=	181.31
Apron											
Long	1	X	2	X	43.23	X	0.37	X	0.18	=	5.76
Short	1	X	2	X	24.39	X	0.37	X	0.18	=	3.25
O.S.metal in plinth along periphery.											
Long	1	X	2	X	41.79	X	0.60	X	0.60	=	30.09
	1	X	2	X	20.49		0.60		0.60	=	14.75
Total Say											235.16
											235.20

- 43 Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having sqm weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete.

Main bldg.	1	X	1	X	41.79	X	21.69			=	906.55
O.S.metal in plinth along periphery.											
Long	1	X	2	X	41.79	X	0.60			=	50.15
Short	1	X	2	X	20.49	X	0.60			=	24.59
Total Say											981.29
											981.30

- 44 Providing and laying in situ **cement concrete M20 with tremix treatment for 150mm** thickness for flooring with Sq.M groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen including hardner @ 3 Kg / Sq.M for flooring (Fosrok / Nitofloor hardtop non metallic floor harder or similar) etc.complete with fine aggregate (**Crushed sand VSI Grade**)

Main bldg.	1	X	1	X	41.79	X	21.69			=	906.55
Total Say											906.55
											906.60

- 45 Providing and casting in situ / ready mix **PCC M15 grade** of trap metal **for coping to head walls / parapet** including centering, form work, compaction and curing etc. complete.(**Crushed sand VSI Grade**)

Apron											
Long	2	X	2	X	43.69	X	0.60	X	0.10	=	10.49
Short	2	X	2	X	41.79	X	0.60	X	0.10	=	10.03
Coping over gutter											
Long	2	X	2	X	45.39	X	0.45	X	0.10	=	8.17
Short	2	X	2	X	23.69	X	0.45	X	0.10	=	4.26
Total Say											32.95
											33.00

- 46 Providing & fixing M.S. angle 50 x 50 x 6 mm with **holdfasts at doorsills** including fixing in bed concrete and then RMT applying three coats of oilpaint etc. complete.

For Platforms	2	X	3	X	2.70					=	16.20
Total Say											16.20
											16.20

- 47 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per Kgs detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.

For Platforms	2	X	3	X	9.70	X	16.80	Kg/M.		=	977.76
@ 16.80 kg/m											
Holdfasts 20 mm dia	2	X	36	X	0.60	X	2.50	Kg/M.		=	108.00
@ 2.50 kg/m											
L50x50x6 mm for fire bucket.										=	180.00
@ 4.50 kg/m											
Total Say											1265.76
											1266.00

- 48 Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. RMT angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing

	1	X	1	X	8.00					=	8.00
Total Say											8.00
											8.00

- 49 Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular RMT copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long (Heavy Duty) welded or clam ped to G.I. pipe pole B grade 50 mm dia of requiired length with M.S. round bnase plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 dfoundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with altemate layers of charcoal and salt and G.I.pipe 40mm dia 2 meter length burried in earthe upto earthing plate remining portion above ground level for watering and refilling complete.

1	X	15	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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- 50 Providing and fixing 90 cm x 60 cm Marble plate engraving 10 cm. height letter, figures including painting the sqm lefters/figures with approved colour and shade complete

1	X	2	X	0.90	X	0.60		=	1.08	
									Total	1.08
									Say	2.00

- 51 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking cum clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.

I-1A"

	0.00
Total	0.00
Say	10.00

- 52 Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of cum excavation to the site of deposition as directed.

AS PER ITEM No 2

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- 53 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, cum ramming, watering etc. complete.

Provision

Total	0.00
say	1.00

- 54 Supply of pre-constructional Anti-termite treatment chemical as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Clorophyrifos /Hephoclore per square meter of surface

1	X	1	X	41.79	X	21.69		=	45.33	Litre
									Total	= 45
									Say	= 45.00

- 55 Labour charges for pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Clorophyrifos /Hephoclore per square meter of surface

1	X	1	X	41.79	X	21.69		=	906.55	Sqm
									Total	= 907
									Say	= 907.00

- 56 Providing and laying Cast in situ/Ready Mix cement concrete in **M-25** of trap/ granite/ quartzite/ gneiss metal for Cum **R.C.C. pardi** of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).. complete. With fine aggregate (**Crushed sand VSI Grade**)

Provision for Plinth Padadi

1	X	1	X						=	1.00
									Total	= 1.00
									Say	= 1.00

- | | | | | | | | |
|-----------|---|---|---|---|-------|---|-----------------|
| Provision | 1 | X | 1 | X | | = | 1.00 |
| | | | | | Total | = | 1.00 |
| | | | | | Say | = | 1.00 Sgm |

1	Above Plinth PEB Structure - providing & erecting PEB structure with zincalume sheets etc.complete.	1	X	1	X	41.40	X	21.300	=	881.82
									Total	= 881.82
									Say	= 882.00
2	Turbo ventilator 24"	2	X	7					=	14.00
									Total	= 14.00
									Say	= 14.00

Dy.Manager (Engg.)
MSWC-Amravati