

RECAPULATION SHEET

STANDARD ESTIMATE FOR CONSTRUCTION OF 1/2000 MT CAPACITY "SHETKARI MITRA
FARMER PRODUCER COMPANY "AT.MALEGAON TQ.ARDHAPUR DIST.NANDED.

Based on PWD SSR 2021-22

PARTICULARS	Unit	AMOUNT	2000 Cost per MT
S.W. I - W.H.Building 1/2000 M T	2833.83 Sqm	9169787	4521
Above Plinth (PEB WH.BLDG.)	1227.24 Sqm	4880400	2280

Total cost of 2000 MT godoun				14050187		
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S.W. II - Internal Bituminous roads		Rs	2099997		
S.W.III - Electrification		Rs	136928		
S.W. IV - Fire Extinguishers		Rs.	50000		0
S.W.:- V - Royalty charges		Rs.	719813		
S.W.:- VI - Lab testing charges		Rs.	160910		

Tender Cost			Rs.	3006738		
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Add 7% contingencies	7%	Rs.	1193985		
Add GST 12%	12%	Rs	2046831		
Add 0.50% labour Insurance		Rs.	90402		

Grand Total			Rs.	20388142		
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(IN WORDS : -TWO CORE THREE LAC EIGHTY EIGHT THOUSAND ONE HUNDRED
FOURTY TWO RUPEES ONLY.)

MAHARASHTRA STATE WAREHOUSING CORPORATION
583/B, MARKET YARD, GULTEKADI, PUNE-411037
STANDARD ESTIMATE FOR CONSTRUCTION OF 1/2000 MT CAPACITY PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS

LEADS & RATES OF MATERIALS Based on PWD SSR 2021-22

S	MATERIAL & LOCATION	UNIT	Dist. In KM	Actual Lead charges	INITIAL	LEAD DIFF	Pay Factor	rate/unit	Rate For Supply
1	Natural Sand	CU M	0.00	0	0.00	0.00	1.00	0.00	313.5
	crush Sand	CU M	0.00	0	0.00	0.00	1.00	0.00	
2	METAL UPTO 40MM crushed	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00 Lead per Cu.M.
3	METAL ABOVE 40 MM Road	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00 Lead per Cu.M.
4	RUBBLE	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00 Lead per Cu.M.
5	BRICKS (475 bricks per Cum)475*0.63815	Cum	0.00	0	0.00	0.00	1.00	0.00	0.00 Lead per 475 Nos.
6	HARD MURUM/Soft Murumn	CU M	0.00	0	0.00	0.00	1.00	0.00	0.00 Lead per Cu.M.
7	Royalty	1							
8	Cement	MT	0	0	0.00	0.00	9.00	0.00	0.00 Lead per bag
9	Steel	MT	0	0	0.00	0.00	9.00	0.00	0.00 Lead per M.T.
10	Bitumen	kg	0.00	0.00	0.00	0.00	1.00	0.00	0.00

lead for Bitinum(from mumbai)

lead of 172 Kg drum from mumbai

km' 700.00 1081.75

km' 800.00 1234.35

km' 720.00 1173.31

for per 172.00 6.82

			QTY	RAT	AMOUNT
1	C.C. 1:3:6 for foundation & bedding	SAND	0.47	0	0.00
	Natural Sand	METAL	0.9	0	0.00
		Cement	4.4	0	0.00
					0.00
1	C.C. 1:3:6 for foundation & bedding	SAND	0.47	0	0.00
	crush Sand	METAL	0.9	0	0.00
		Cement	4.4	0	0.00
		Natural San	0	0.9	0.00
					0.00
2	P & C U.C.R masonry	SAND	0.35	0	0.00
	Natural Sand	RUBBLE	1.16	0	0.00
		Cement	1.7	0	0.00
					0.00
2	P & C U.C.R masonry	SAND	0.35	0	0.00
	crush Sand	RUBBLE	1.16	0	0.00
		Cement	1.7	0	0.00
		Natural San	0	0.9	0.00
					0.00
3	P & C B.B. masonry in plinth & S.S	SAND	0.32	0	0.00
	Natural Sand	BRICKS	1.00	0	0.00
		Cement	1.58	0	0.00
					0.00

3	P & C B.B. masonry in plinth & S.S crush Sand	SAND	0.32	0	0.00
		BRICKS	1.00	0	0.00
		Cement	1.58	0	0.00
					0.00
4	P & L R.C.C. (M-25) 1:1:2 Natural Sand	SAND	0.425	0.00	0.00
		METAL	0.9	0.00	0.00
		Cement	7.5		0.00
					0.00
4	P & L R.C.C. (M-25) 1:1:2 crush Sand	SAND	0.425	0.00	0.00
		METAL	0.9	0.00	0.00
		Cement	7.5		0.00
					0.00
4	P & L R.C.C. (M-20) 1:1.5:3 Natural Sand	SAND	0.425	0	0.00
		METAL	0.9	0	0.00
		Cement	7	0	0.00
					0.00
4	P & L R.C.C. (M-20) 1:1.5:3 crush Sand	SAND	0.425	0	0.00
		METAL	0.9	0	0.00
		Cement	7	0	0.00
					0.00
4-A	P & L R.C.C. 1:2:4 Natural Sand	SAND	0.445	0	0.00
		METAL	0.9	0	0.00
		Cement	6.4	0	0.00
					0.00
4-A	P & L R.C.C. 1:2:4 crush Sand	SAND	0.445	0	0.00
		METAL	0.9	0	0.00
		Cement	6.4	0	0.00
					0.00
5	P & A 12mm tk plaster Natural Sand	SAND	0.015	0	0.00
		Cement	0.11	0	0.00
5	P & A 12mm tk plaster crush Sand	SAND	0.015	0	0.00
		Cement	0.11	0	0.00
6	P & A Sand faced 15 mm tk plaster Natural Sand	SAND	0.02	0	0.00
		Cement	0.17	0	0.00
					0.00
6	P & A Sand faced 15 mm tk plaster crush Sand	SAND	0.02	0	0.00
		Cement	0.17	0	0.00
					0.00
7	P & A 20 mm tk plaster with slurry Natural Sand	SAND	0.025	0	0.00
		Cement	0.17	0	0.00
					0.00
7	P & A 20 mm tk plaster with slurry crush Sand	SAND	0.025	0	0.00
		Cement	0.17	0	0.00
					0.00
8	P & F ploished shahabad for sills & dado Natural Sand	SAND	0.022	0	0.00
		Cement	0.185	0	0.00

				0.00
SAND	0.022	0	0.00	
Cement	0.185	0	0.00	
				0.00
sand	0.034	0	0.00	
bricks Cement	1	0	0.00	
	0.22	0	0.00	
				0.00
sand bricks	0.034	0	0.00	
	1	0	0.00	
			0.00	
			0.00	
sand ROYALTY	0.003	0	0.00	
	0	0	0.00	
				0.00
sand	0.003	0	0.00	
ROYALTY	0	1	0.00	
				0.00

8 P & F ploished shahabad for sills & dado
crush Sand

9 P & C half brick wall 120 bricks per cum
Natural Sand

9 P & C half brick wall 120 bricks per cum crush Sand

10 P & a flush pointing in c.m.1:3 for stone masonry

10 P & a flush pointing in c.m.1:3 for stone masonry

I.N.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N	BASI RATE	ALL LEAD & ROYA	For Sca -120	TOTAL L	Add C Char	TOTAL RATES 6 TO 11	ADD F CHA	TOTAL RATES 6 TO 13	A M O U

S.W. I - W.H.BUILDING/12000 MT

Part - A :- Civil work

1	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area	2709.00	sq.m	2.07/23	4.00			4.00		4.00		4.00	10836
2	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	331.00	cu.m	21.02/11 ₅	193.00			193.00		193.00		193.00	63883
3	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the	1.00	cu.m	21.04/11 ₅	241.00			241.00		241.00		241.00	241
4	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as	97.89	cu.m	21.06/11 ₅	212.00			212.00		212.00		212.00	11448
5	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as	48.94	cu.m	21.08/11 ₅	265.00			265.00		265.00		265.00	6095
6	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking	1.00	cu.m	21.10/11 ₅	235.00			235.00		235.00		235.00	235
7	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking	12.00	cu.m	21.12/11 ₆	291.00			291.00		291.00		291.00	3492
8	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the	1.00	cu.m	21.14/11 ₆	402.00			402.00		402.00		402.00	402
9	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the	1.00	cu.m	21.16/11 ₆	490.00			490.00		490.00		490.00	490
10	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a	1.00	cu.m	21.20/11 ₆	1223.00			1223.00		1223.00		1223.00	1223

22	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and	84.36	cu	25.52/135	11652	-120.00	11532.00	0.00	11532.00	0.00	11532.00	784176
23	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including	3.46	cu	26.07/137	13283	-120.00	13163.00	0.00	13163.00	0.00	13163.00	26326
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	14.00	cu	25.72/136	14114	-120.00	13994.00	0.00	13994.00	0.00	13994.00	195916
25	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	193.32	cu	27.05/144	7570	-120.00	7450.00	0.00	7450.00	0.00	7450.00	461900
26	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items	1.00	cu	24.08/131	6030	-120.00	5910.00	0.00	5910.00	0.00	5910.00	5910
27	Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge	413.86	sq	32.07/153	366.00		366.00	0.00	366.00	0.00	366.00	151473
28	Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with	816.67	sq	32.07/32.15	427.00		427.00	0.00	427.00	0.00	427.00	348718
29	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With slurry cement smooth finish to concrete or brick surface in all positions including	413.86	sq	32.07/32.21	434.00		434.00	0.00	434.00	0.00	434.00	179615
30	Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including scaffolding & preparing the surface by brushing & brooming	452.00	sq	36.02/36.03/1	18.00		18.00	0.00	18.00	0.00	18.00	8136
31	Providing and applying two coats of exterior acrylic emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered	667.00	sq	35.25/165	240.00		240.00	0.00	240.00	0.00	240.00	160080
32	Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry,curing,moulding edges, polishing	14.69	sq	33.19/157	1215.00		1215.00	0.00	1215.00	0.00	1215.00	6075

33	Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines including preparing the surfaces & primer coat etc. complete.	48.00	sq	35.12/164	130.00	130.00	0.00	130.00	6240
			m	35.2					
34	Providing & applying oilpainting name of M S W C with three coat with background of approved colour & shade including scaffolding etc complete.	20.00	sq	M R	1000.00	1000.00	0.00	1000.00	20000
35	Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections with	18.00	sq	R.A	6989.09	6989.09	0.00	6989.09	125804
36	Providing & fixing steel rolling shutter fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling	33.00	sq	R.A	4822.00	4822.00	0.00	4822.00	159126
37	Providing & fixing steel grill rolling shutter with fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft,	33.00	sq	R.A	3387.00	3387.00	0.00	3387.00	111771
38	Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 mm thickness reinforced with 35x35x5 mm angle section	1.00	sq	R.A	4940.97	4940.97	0.00	4940.97	4941
39	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.	10.00	cu	21.36/117	113.00	113.00	0.00	113.00	1130
40	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable]	1124.14	cu	RA	1024.14	1024.14	0.00	1024.14	1151277
41	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	3552.00	sq	2.31/24	19.00	19.00	0.00	19.00	67488
42	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling	235.20	cu	RA	1348.49	1348.49	0.00	1348.49	317165
43	Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 MT. including necessary, labour, materials and	981.30	sq	50.59/250	27.00	27.00	0.00	27.00	26495

44 Providing and laying in situ cement concrete M20 with tremix treatment for 150mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary	906.60	Sq .M	RA	1064.00	0.00	1064.00	0.00	1064.00	0.00	1064.00	964622
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.	33.00	C u m	11.30/63	9276	0.00	9276.00	0.00	9276.00	0.00	9276.00	306108
46 Providing & fixing M.S. angle 50 x 50 x 6 mm with holdfasts at doorsills including fixing in bed concrete and then applying three coats of oilpaint etc. complete.	16.20	R M	RA	417.83	417.83	417.83	0.00	417.83	0.00	417.83	6769
47 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting,	1266.00	Kg S	23.01/129	89.18	89.18	89.18	0.00	89.18	0.00	89.18	112902

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. angle stiffeners at three places as directed with M.S.	8.00	R M	RA	1761.08	1761.08	0.00	1761.08	14089
49	Providing and fixing lightening conductor system comprising of erecting Air- Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple	15.00	NO	RA	2132.00	2132.00	0.00	2132.00	31980
50	Providing and fixing 90 cm x 60 cm Marble plate engraving 10 cm. height letter, figures including painting the letters/figures with approved colour and shade complete	2.00	sq.m	44.11/213	3972.24	3972.24	0.00	3972.24	7944
51	Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and	10.00	cu.m	2.25/24	177.00	177.00	0.00	177.00	1770
52	Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of excavation to the site of deposition as directed.	331.00	cu.m	5km/lea d	220.06	220.06	0.00	220.06	72940
53	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1.00	cu.m	21.40/118	1322.00	1322.00	0.00	1322.00	1322
54	Supply of pre-constructional Anti-termite treatment chemical as per I.S. 6313 (Part-II)	45.00	litre	RA	660.00	660.00	0.00	660.00	29700
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	907.00	Sqm	RA	14.50	14.50	0.00	14.50	13152
56	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering.	1.00	cu.m	26.19/137	14863.00	14743.00	0.00	14743.00	14743
57	Providing and fixing colour coated Zincaleum (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for flashing at parapet. The feed material is	1.00	sq.m	RA	1332.80	1332.80	0.00	1332.80	1333
TOTAL FOR W.H.BLDG									9042449
Part - B :- PEB work									TOTAL RS

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 and the like, as per detailed design sand 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 of approved quality and shade etc. complete.

89181 3102607

34.79 M.T

2 Providing structural steel work in single stanchions composed of R.S.J. Channel etc. withcaps, bases, mild steel plated, angle brackets, cleats, gusset plates, anchor bolt set c.as per detailed designs and drawings or as directed including cutting, fabrication, hoisting, erecting fixing in position, making riveted/bolted/welded connection and one coat of anticorrosive paint and over it two.coats of oil painting approved quality and shade etc. complete.

85803.00 1602800

18.68 M.T

10680.00 170880

16.00 No 42/374 8680 1000.00 1000.00
 .00 fixing polycarbonate
 Supp

2 Turbo ventilator 24"

TOTAL RS 4876287

S.W. II - INTERNAL ROADS

IN.	DESCRIPTION OF ITEM	QUANTIT Y	UNIT	IN/P/N	BASI C RAT E	ALL LEAD & ROYALT	For Sca da	TOTAL	A d d %	TOTAL OF RATES 6 TO 11	ADD % FOR CHARGES 0.0000	TOTAL OF RATES 6 TO 11	AMOUNT
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the re	820.00	cum	2.11/23	104.00		184.00			104.00	0.00	104.00	64480
2	Picking the road surface including sectioning etc. complete (WBM surface.)	0.00	Sqm	2.32/25	28.00		28.00			28.00	0.00	28.00	0
3	Excavation for roadway in hard murum and boulder including dressing section to the re	1.00	cum	2.13/23	121.00		121.00			121.00	0.00	121.00	121
4	Excavation for roadway in soft rock, including dressing section to the required grade, c	1.00	cum	2.14/23	157.00		157.00			157.00	0.00	157.00	157
5	Excavation for roadway in hard rock by controlled blasting including dressing section to	1.00	cum	2.15/23	250.00		250.00			250.00	0.00	250.00	250
6	Providing soiling using 80 mm size trap metal in 15 cm. layer including filling voids with	233.00	cum	21.40/118	1322.00	0.00	1322.00			1322.00	0.00	1322.00	308026
7	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc.	201.00	cum	50.56/250	700	0.00	700.00			700.00	0.00	700.00	140700
8	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.	134.00	cum	50.55/250	780	0.00	780.00			780.00	0.00	780.00	104520
9	Spreading 80 mm trap stone metal including sectioning as directed etc. complete.	201.00	cum	50.58/250	85.00		85.00			85.00	0.00	85.00	17085
10	Spreading 40 mm trap stone metal including sectioning as directed etc. complete.	134.00	cum	50.58/250	85.00		85.00			85.00	0.00	85.00	11390
11	Supplying hard murum/ kankar at the road site, including conveying and stacking compl	85.00	cum	2.29a/2	398.00		398.00			398.00	0.00	398.00	33830

12	Spreading hard murum/ soft murum/ gravel or kankar for side width complete	85.00	cum	2.3024	74.00	74.00	0.00	74.00	74.00	6200
13	Compacting oversize metal layer with H. M. with power roller including artificial waterin	3044.40	Sqm	50.90250	27.00	27.00	0.00	27.00	27.00	82199
14	Compacting the hard murum side widths including laying in layers on each side with vib	80.00	Sqm	3.31624	19.00	19.00	0.00	19.00	19.00	1520
15	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road su	1015.00	Sqm	RA	223.14	223.14	0.00	223.14	223.14	224487
16	Providing and applying tack coat on the prepared surface heating by fames in Boiler an	1016.00	Sqm	RA	14.73	14.73	0.00	14.73	14.73	14851
17	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness compose	1015.00	Sqm	RA	118.82	118.82	0.00	118.82	118.82	130982
18	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of	1015.00	Sqm	RA	84.32	84.32	0.00	84.32	84.32	85585
19	Providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting num	75.00	nos	11.2783	993	993.00	0.00	993.00	993.00	72225
PART II :- CROSS DRAINAGE WORKS										
20	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, includi	23.00	cum	21.02115	193.00	193.00	0.00	193.00	193.00	4450
21	Excavation for foundation in hard murum including removing the excavated material upt	5.00	cum	21.08115	212.00	212.00	0.00	212.00	212.00	1060
22	Excavation for foundation in Hard murum including removing the excavated material up	3.00	cum	21.07115	403.00	403.00	0.00	403.00	403.00	1200
23	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including	1.00	cum	21.10116	1223.00	1223.00	0.00	1223.00	1223.00	1223
24	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ qu	4.00	cum	24.01131	5536	5418.00	-120.00	5418.00	5418.00	21672
25	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in ceme	9.00	cum	28.01146	4527.00	4527.00	0.00	4527.00	4527.00	42813
26	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters f	1.30	MT	26.33195	71778.00	71778.00	0.00	71778.00	71778.00	93311
27	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / qua	6.00	cum	25.50135	11483.00	11363.00	-120.00	11363.00	11363.00	68178
28	Providing cement plaster 20 mm thick in two coats in C. M. 1 : 4 with slurry finish to co	27.00	Sqm	33.0132.0117 133	557.00	557.00	0.00	557.00	557.00	15626

S.W. IV - Fire Extinguishers

I.N.	DESCRIPTION OF ITEM	QUANT ITY	UNIT	I.N./ P.N	BASIC CHAR TERS & R.A	TOT AL	Add % Q.C.	TOTA L OF S	ADD % FOR	TOTAL OF RATES 6 TO 11	AMOUN T		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
					RAT E /MR H M		Charg es 0.0005	6 TO 11	CHAR GES 0.0000				

ABC Types Fire extinguishers are effective for all types of fire like Class A, B and C types of fires as well as Electrical fires and also ABC Powder Type (Stored Pressure) Fire Extinguisher, Multipurpose uses & ISI, ISO and CE Certified Product and Multipurpose Uses ABC Type fire extinguisher 6 Kg with 5 years Warranty

20.00 No. MR 2500.00 2500.00 0.00 2500.00 50000

TOTAL FOR FIRE EXTINGUISHERS

TOTAL 50000

PCC, Tarfelt, BBM, BEAMS

PANELS

C1-C1 middle
C3-C1 end

Rolling shutters

	2	X	3	X	7.20	X	0.35	7.20	7.200	C/C
C1-C1 middle	2	X	3	X	7.20	X	0.35	7.20	7.200	
C3-C1 end	2	X	7	X	6.950	X	0.35	6.950	6.950	
Rolling shutters	2	X	4	X	2.10			X 2.55		

TK. OF C.C. FLOORING

Gutter **UCR** long
short

APRON **BBM** long

short

Dock leveller

	2	X	2	X	52.61	X	0.45	X	0.35
Gutter UCR long	2	X	2	X	52.61	X	0.45	X	0.35
short	2	X	2	X	22.39	X	0.45	X	0.35
APRON BBM long	2	X	2	X	51.90	X	0.23	X	0.50
short	2	X	2	X	21.300	X	0.23	X	0.50
Dock leveller	2	X	2	X					
	2	X	52.61						
	2	X	2	X	2.30	X	1.50	X	0.45

Filling Below Apron L/W
S/W

MAHARASHTRA STATE WAREHOUSING CORPORATION

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

Part - A :- Civil work

S.W. I - W.H. Building 1/2000 M T

MEASUREMENT SHEET

Item Nos & Description of Items	NO.S		LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	Unit				
	1	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 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							cum				
Column footing											
Column C1	2	X	6	X	2.80	X	2.30	X	1.30	=	100.46
Column No. C3	2	X	2	X	2.30	X	2.30	X	1.30	=	27.51
Column No.C2 gable	2	X	2	X	2.10	X	1.80	X	1.30	=	19.66
Column No.Platform	2	X	4	X	1.30	X	1.30	X	1.30	=	17.58
For Ground Beam PANEL											
C1-C1 middle	2	X	4	X	4.354	X	0.9	X	0.60	=	18.81
C3-C1 end	2	X	2	X	4.354	X	0.9	X	0.60	=	9.40
C2-C3 END WALL	2	X	2	X	4.2	X	0.9	X	0.60	=	9.08
C2-C2 M	2	X	2	X	4.205	X	0.9	X	0.60	=	9.08
APRON long	1	X	2	X	52.61	X	1.28	X	0.60	=	80.81
APRON short	1	X	2	X	22.390	X	1.28	X	0.60	=	34.39
	Total						326.78				
	say						331.00				
3 Excavation for foundation in earth, soils of all types, sand,gravel and soft murum, including removing the 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											cum
	Provision						say	=	1.00		
4 Excavation for foundation in hard murum including removing the excavated material upto distance 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 upto 1.50 m) By Mechanical Means											cum
Column footing											
Column C1	2	X	12	X	2.8	X	2.3	X	0.40	=	60.72
Column No. C3	2	X	4	X	2.3	X	2.3	X	0.40	=	16.93
Column No.C2 END	2	X	4	X	2.1	X	1.8	X	0.40	=	12.10
Column No.Platform	2	X	6	X	1.30	X	1.30	X	0.40	=	8.11
	Total						=	97.86			
	say						=	97.86			
5 Excavation for foundation in hard murum including removing the excavated material upto distance 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 1.50 to 3.00 m) By Mechanical Means											cum
Column footing											
Column C1	2	X	12	X	2.8	X	2.3	X	0.20	=	30.36
Column No. C3	2	X	4	X	2.3	X	2.3	X	0.20	=	8.46
Column No.C2 END	2	X	4	X	2.1	X	1.8	X	0.20	=	6.05
Column No.Platform	2	X	6	X	1.3	X	1.3	X	0.20	=	4.06
							0	=	48.93		
	say						=	48.93			

- 6 **Excavation for foundation in hard murum and boulders** including removing the excavated material up to a distance 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 upto 1.5m.) By Mechanical Means

Provision Total 0.00
say 1.00

- 7 **Excavation for foundation in hard murum and boulders** including removing the excavated material up to a distance 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 1.50 to 3.00 m) By Mechanical Means

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	2.1	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	
									Total		11.36	
Provision									say		12.00	

- 8 **Excavation for foundation in Soft rock and old cement or lime masonry** foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift up to 1.5m) By Mechanical Means

Provision 1.00
Total 1.00
Say 1.00

- 9 **Excavation for foundation in Soft rock and old cement or lime masonry** foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.00 m.) By Mechanical Means

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	2.1	X	1.8	X	0.10	=	2.03	
Column No.Platform	2	X	6	X	1.3	X	1.3	X	0.10	=	2.03	
									Total		13.38	
									Total	7	13.38	
									say		1.00	

- 10 **Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc.** including trimming and levelling the cum
bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering
and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto
1.5 m). By Mechanical Means
- | | | | | | | | | | | |
|---|---|---|---|------|---|------|---|------|-------|--------|
| 1 | X | 1 | X | 0.00 | X | 0.00 | X | 0.00 | = | 0.00 |
| | | | | | | | | | Total | = 0.00 |
| | | | | | | | | | Say | = 1.00 |
- 11 **Excavation for foundation in Hard rock up to required depth by pocklain machine** with needle breaker including cum
removing the excavated stuff up to a distance of 50 m beyond the building area all lifts stacking , spreading directed.
- Column footing
- | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|-----|--------|
| | | | | | | | | | SAY | = 1.00 |
|--|--|--|--|--|--|--|--|--|-----|--------|
- 12 **Excavation in plinth in earth soil of all types of sand or gravel or soft murum** including dressing section to the required cum
grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakment or stacking as
directed by engineer in charge
- | | | | | | | | | | | |
|---|---|---|---|-------|---|-------|---|------|-------|----------|
| 1 | X | 1 | X | 51.90 | X | 21.30 | X | 0.10 | = | 110.54 |
| | | | | | | | | | TOTAL | = 110.54 |
| | | | | | | | | | SAY | = 110.54 |
- 13 **Excavation in plinth in Hard murum** including dressing section to the required grade, cambers & side slope & conveying the cum
excavated materials with lead of 50 M and spreading for embakment or stacking etc. Complete
- | | | | | | | | | | | |
|---|---|---|---|-------|---|-------|---|------|-------|--------|
| 1 | X | 1 | X | 51.90 | X | 21.30 | X | 0.00 | = | 0.00 |
| | | | | | | | | | TOTAL | = 0.00 |
| | | | | | | | | | SAY | = 1.00 |
- 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 aggregate (Cum
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 | 51.90 | X | 21.30 | X | 0.10 | = | 110.54 |
| | | | | | | | | | Total | = | 110.54 |
| | | | | | | | | | Say | = | 110.54 |
- 16 **Providing and laying Cast in situ/Ready Mix cement concrete in M-10** of trap/ granite/ quartzite/ gneiss meta/ for foundation cum
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	52.61	X	1.28	X	0.10	=	13.47
APRON short	1	X	2	X	22.390	X	1.28	X	0.10	=	16.43
										Total	= 55.27
										say	= 55.27

17 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in 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) cum

APRON long	1	X	2	X	52.61	X	0.45	X	0.35	=	16.57
APRON short	1	X	2	X	22.39	X	0.45	X	0.35	=	7.05
										Total	= 23.62
										say	= 23.62

18 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in 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) cum

For PANEL

C1-C1 middle	2	X	4	X	6.63	X	0.35	X	1.05	=	19.49
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	52.61	X	0.23	X	0.65	=	15.73
APRON short	1	X	2	X	22.39	X	0.23	X	0.65	=	6.69
Deductions for Munim columns	2	X	9	X	0.350	X	0.230	X	1.20	=	-1.74

Total = 103.86

say = 103.86

19 Providing and fixing in position TMT - FE - 500 bar 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 complete. MT

Footing (80kg/m3)	59.00	80	4.72
Column , Beam &Platform(110kg/m3)	111.00	110	12.21
			Total 16.93
			say 18.78

- 20 Providing and laying in situ /Ready Mix cement concrete M-25 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 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) cum

Column footing

Column C1	2	X	12	X	1.50	X	2.00	X	0.50	=	36.00		
Column No. C3	2	X	4	X	1.48	X	2.00	X	0.50	=	11.84		
Column No.C2 END	2	X	4	X	1.75	X	1.50	X	0.50	=	10.50		
Column No.Platform	2	X	6	X	1.00	X	1.00	X	0.50	=	6.00		
											Total	64.31	
											say	64.31	Cum

- 21 Providing and laying Cast in situ/Ready Mix cement concrete M-25of trap / granite /quartzite/ gneiss metal for 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) cum

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	45.38	
											say	45.38	

- 22 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for 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) cum

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 superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete. With fine aggregate (Crushed sand VSI Grade) cum

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
									Total		78.05
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										=	1.90
C2 near R.S.										=	0.55
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 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) cum

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 finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge sqm

Outside										=	
Long wall	1	X	2	X	52.61	X	3.00			=	315.66
short wall	1	X	2	X	22.39	X	3.00			=	134.34
R S Jams	2	X	3	X	7.20	X	0.23			=	9.94
Weather sheds over										=	29.52
V1 top, bottom	2	x	16	x	2.05	x	0.45			=	1.08
Sides	2	X	16	X	0.450	X	0.08			=	
									Total		490.54
Deduction										=	21.00
rolling shutter	2	X	2	X	2.1	X	2.5			=	21.00
									Dedu.		21.00
									Net		469.54
									say		470.00

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

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

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 including scaffolding etc complete. sqm

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