

MAHARASHTRA STATE WAREHOUSING CORPORATION  
583/B, MARKET YARD , GULTEKADI, PUNE-411037

STANDARD ESTIMATE FOR CONSTRUCTION OF 1/3000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS

(Ref. Sillod unit No III)

LEADS & RATES OF MATERIALS			Based on D S R 2021-22							
S.N.	MATERIAL & LOCATION	UNIT	Dist. In KM	Actual Lead charges	INITIAL	LEAD DIFF	Pay load Factor	rate/unit	Rate For Supply	
1	Natural Sand	CU M	13.00	322.07	0.00	322.07	1.00	0.00		313.5
	crush Sand	CU M	175.00	1866.85	0.00	1866.85	1.00	0.00		
2	METAL UPTO 40MM crushed	CU M	175.00	1866.85	0.00	1866.85	1.00	0.00	0.00	Lead per Cu.M.
3	METAL ABOVE 40 MM Road	CU M	18.00	363.704	0.00	363.70	1.00	0.00	0.00	Lead per Cu.M.
4	RUBBLE	CU M	18.00	464.29	0.00	464.29	1.00	0.00	0.00	Lead per Cu.M.
5	BRICKS	Cum	5.00	462.67	0.00	219.77	1.00	0.00		Lead per 475 Nos.
	( 475 bricks per Cum )475*0.63815						#DIV/0!	0.00		
6	HARD MURUM/Soft Murumn	CU M	5.00	215.51	0.00	215.51	1.00	0.00	0.00	Lead per Cu.M.
7	Royalty	1						0.00		
8	Cement	MT	10	0	0.00	0.00	9.00	0.00		Lead per bag
9	Steel	MT	10	0	0.00	0.00	9.00	0.00		Lead per M.T.
10	Bitumen	kg	1000.00	8.31	0.00	8.31	1.00	0.00	0.00	

lead for Bitinum(from mumbai) 5.81

			QTY	RATE	AMOUNT
1	C.C. 1:5:10 for foundation & beddding	SAND	0.47	0	0.00
	Natural Sand	METAL	0.94	0	0.00
		Cement	2.52	0	0.00
					0.00
1	C.C. 1:5:10 for foundation & beddding	SAND	0.47	1866.85	877.42
	crush Sand	METAL	0.94	0	0.00
		Cement	2.52	0	0.00
		Natural Sand	0	0.94	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	1.78	0	0.00
					0.00
2	P & C U.C.R masonry	SAND	0.35	1866.85	653.40
	crush Sand	RUBBLE	1.16	0	0.00
		Cement	1.78	0	0.00
		Natural Sand	0	0.94	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

Municipal Council Areas  
Hence percentage required to be added will be percentage 4.00%  
BLDG.WORKS 0.00%  
ROAD WORKS 0.00%  
Labour cess 0.00%

Total Tax 4.00%

398.00  
226.50  
238.00  
109.00  
971.50



					0.00
8	P & F ploished shahabad for sills & dado	SAND	0.024	0	0.00
	Natural Sand	Cement	0.14	0	0.00
					0.00
8	P & F ploished shahabad for sills & dado	SAND	0.024	1866.85	44.80
	crush Sand	Cement	0.14	0	0.00
					0.00
9	P & C half brick wall	sand	0.036	0	0.00
	120 bricks per cum	bricks	1	26372.19	26372.19
	Natural Sand	Cement	0.22	0	0.00
					0.00
9	P & C half brick wall	sand	0.036	1866.85	67.21
	120 bricks per cum	bricks	1	0	0.00
	crush Sand				67.21
10	P & a flush pointing in c.m.1:3 for stone m.	sand	0.003	0	0.00
		ROYALTY	0	0	0.00
					0.00
10	P & a flush pointing in c.m.1:3 for stone m.	sand	0.003	1866.85	5.60
		ROYALTY	0	1	0.00
					0.00
11	50mm MPM	40 mm			
		metal	0.06	0	0.00
		Cruash Metc	0.018	0	0.00
		Bitumen	2.05	0	0.00
		Heating Charge			0.11
		<b>Total</b>			<b>0.00</b>
12	Open Graded Premix	Crush Metal	0.027	0	0.00
		Bitumen	1.76	0	0.00
		<b>Total</b>			<b>0.00</b>
13	9mm Seal Coat type A	Crush Metal	0.017	0	0.00
		Bitumen	1.2	0	0.00
		<b>Total</b>			<b>0.00</b>

Jr.Engineer  
MSWC,Aurangabad

Dy.Manager (Engg.)  
MSWC,Aurangabad

I.N.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./ P.N	BASIC RATE	ALL LEAD & ROYALT Y	For Scada	TOTAL	Add 0 % C Area Charges 0.000	TOTAL OF RATES 6 TO 11	ADD % FOR CHARGES 0.0000	TOTAL OF RATES 6 TO 14	AMOUNT
1	2	3	4	5	6	7	-117 8	9	10	11	12	13	14

## Part - A :- Civil work

### S.W. I - W.H.BUILDING1/3000 M T

1	Clearing grass and removal of rubbish up	4158.00	sq m	2.07/23	4.00			4.00		4.00	0.00	4.00	16632
2	Cutting down trees including trunks and	1.00	Nos.	2.01/23	478.00			478.00		478.00	0.00	478.00	478
3	Excavation for foundation in earth, soil of	859.00	cu m	21.02/115	193.00			193.00		193.00	0.00	193.00	165787
4	Excavation for foundation in earth, soils	1.00	cu m	21.04/115	241.00			241.00		241.00	0.00	241.00	241
5	Excavation for foundation in hard murum	140.00	cu m	21.06/115	212.00			212.00		212.00	0.00	212.00	29680
6	Excavation for foundation in hard murum	1.00	cu m	21.08/115	265.00			265.00		265.00	0.00	265.00	265
7	Excavation for foundation in hard murum	1.00	cu m	21.10/115	235.00			235.00		235.00	0.00	235.00	235
8	Excavation for foundation in hard murum	1.00	cu m	21.12/116	291.00			291.00		291.00	0.00	291.00	291
9	Excavation for foundation in Soft rock	1.00	cu m	21.14/116	402.00			402.00		402.00	0.00	402.00	402
10	Excavation for foundation in Soft rock	93.00	cu m	21.16/116	490.00			490.00		490.00	0.00	490.00	45570
11	Excavation for foundation in Hard rock by	5.00	cu m	21.20/116	1223.00			1223.00		1223.00	0.00	1223.00	6115
12	Excavation for foundation in Hard-rock by	5.00	cu m	21.18/116	964.00			964.00		964.00	0.00	964.00	4820
13	Excavation in plinth in earth soil of all	296.00	cu m	2.11/23	104.00			104.00		104.00	0.00	104.00	30784
14	Excavation in plinth in Hard murum	5.00	cu m	2.13/23	121.00			121.00		121.00	0.00	121.00	605
15	Providing and fixing 25mm diameter steel	36.00	Nos	12.13/65	1460.00			1460.00		1460.00	0.00	1460.00	52560
16	Construction of dry lean cement concrete	148.00	cu m	5.13/37	3410.00	0.00		3410.00		3410.00	0.00	3410.00	504680
17	-----Do----- in Crush Sand	0.50	cu m	5.13/37	3410.00	0.00		3410.00		3410.00	0.00	3410.00	1705
18	Providing and laying Cast in situ/Ready	70.00	cu m	24.01/130	5538.00	0.00	-120.00	5418.00	0.00	5418.00	0.00	5418.00	379260
19	-----Do----- in Crush Sand	0.50	cu m	24.01/130	5538.00	0.00	-120.00	5418.00	0.00	5418.00	0.00	5418.00	2709
20	Providing uncoursed rubble masonry of	28.00	cu m	28.01/146	4757.00	0.00		4757.00	0.00	4757.00	0.00	4757.00	133196
21	-----Do----- in Crush Sand	0.50	cu m	28.01/146	4757.00	0.00		4757.00	0.00	4757.00	0.00	4757.00	2379
22	Providing second class Burnt Brick	54.00	cu m	27.01/144	7343.00	0.00		7343.00	0.00	7343.00	0.00	7343.00	396522
23	-----Do----- in Crush Sand	0.50	cu m	27.01/144	7343.00	0.00		7343.00	0.00	7343.00	0.00	7343.00	3672
24	Providing and fixing in position TMT - FE -	44.000	M T	26.33/139	71778.00			71778.00	0.00	71778.00	0.00	71778.00	3158232
25	Providing and laying in situ /Ready Mix	337.00	cu m	25.15/133	7006.00	0.00	-120.00	6886.00	0.00	6886.00	0.00	6886.00	2320582
26	-----Do----- in Crush Sand	0.50	cu m	25.15/133	7006.00	0.00	-120.00	6886.00	0.00	6886.00	0.00	6886.00	3443
27	Providing and laying Cast in situ/Ready	46.00	cu m	25.35/134	13326.00	0.00	-120.00	13206.00	0.00	13206.00	0.00	13206.00	607476
28	-----Do----- in Crush Sand	0.50	cu m	25.35/134	13326.00	0.00	-120.00	13206.00	0.00	13206.00	0.00	13206.00	6603
29	Providing and laying Cast in situ/Ready	64.00	cu m	25.54/135	11822.00	0.00	-120.00	11702.00	0.00	11702.00	0.00	11702.00	748928
30	Mix cement concrete M-30 of tran /												
30	-----Do----- in Crush Sand	0.50	cu m	25.54/135	11822	0.00	-120.00	-120.00	0.00	-120.00	0.00	-120.00	-60
31	Providing and laying Cast in situ/Ready	1.00	cu m	26.07/137	13283.00	0.00	-120.00	13163.00		13163.00	0.00	13163.00	13163
32	-----Do----- in Crush Sand	0.50	cu m	26.07/137	13283	0.00	-120.00	13163.00	0.00	13163.00	0.00	13163.00	6582

33	Providing and laying Cast in situ/Ready	36.00	cu m	25.74/136	14285.00	0.00	-120.00	14165.00	0.00	14165.00	0.00	14165.00	509940
34	-----Do----- in Crush Sand	0.50	cu m	25.74/136	14285	0.00	-120.00	-120.00	0.00	-120.00	0.00	-120.00	-60
35	Providing second class Burnt Brick	25.00	cu m	27.05/144	7570.00	0.00	-120.00	7450.00		7450.00	0.00	7450.00	186250
36	-----Do----- in Crush Sand	0.50	cu m	27.05/144	7570	0.00	-120.00	7450.00	0.00	7450.00	0.00	7450.00	3725
37	Providing and laying Cast in situ/Ready	1.00	cu m	24.08/131	6030.00	0.00	-120.00	5910.00		5910.00	0.00	5910.00	5910
38	-----Do----- in Crush Sand	0.50	cu m	24.08/131	6030	0.00	-120.00	5910.00	0.00	5910.00	0.00	5910.00	2955
39	Providing internal cement plaster 15 mm	523.00	sq m	32.07/153	366.00	0.00		366.00	0.00	366.00	0.00	366.00	191418
40	-----Do----- in Crush Sand	0.50	sq m	32.07/153	366.00	0.00		366.00	0.00	366.00	0.00	366.00	183
41	Providing cement plaster 20mm thick in C.M. 1:4 inside to the W.H. bldg. with	499.00	sq m	32.07/32.15 /153	427.00	0.00		427.00	0.00	427.00	0.00	427.00	213073
42	-----Do----- in Crush Sand	0.50	sq m	.07/32.15/1	427.00	0.00		427.00	0.00	427.00	0.00	427.00	214
43	Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With	625.00	sq m	32.07/32.21 /153	557.00	0.00		557.00	0.00	557.00	0.00	557.00	348125
44	-----Do----- in Crush Sand	0.50	sq m	.07/32.21/1	557.00	0.00		557.00	0.00	557.00	0.00	557.00	279
45	Providing cement plaster 12 mm thick in	0.00	sq m	32.05/201	274.00	0.00		274.00		274.00	0.00	274.00	0
46	-----Do----- in Crush Sand	0.00	sq m	32.05/201	274.00	0.00		274.00	0.00	274.00	0.00	274.00	0
47	Providing & applying whitewash three coats on plastered or masonry surface	499.00	sq m	36.02/36.03 /167	18.00			18.00		18.00	0.00	18.00	8982
48	Providing and applying two coats of	735.00	sq m	35.25/165	240.00			240.00		240.00	0.00	240.00	176400
49	Providing sills of polished Kota stone 25	3.00	sq m	33.19/157	1215.00	0.00		1215.00		1215.00	0.00	1215.00	3645
50	Providing & applying oilpainting in two	36.00	sq m	2/216 35.21	130.00			130.00		130.00	0.00	130.00	4680
51	Providing & applying oilpainting name of	20.00	sq m	M R	1000.00			1000.00		1000.00		1000.00	20000
52	Providing and fixing in position aluminium	9.00	sq m	R.A	6721.54			6721.54		6721.54	0.00	6721.54	60494
53	Providing & fixing steel rolling shutter	43.00	sq m	R.A	4837.83			4837.83		4837.83	0.00	4837.83	208027
54	Providing & fixing steel grill rolling	43.00	sq m	R.A	3314.13			3314.13		3314.13	0.00	3314.13	142508
55	P & f Steel rolling shutter 20 gauge with	0.00	sq m	R.A	5016.34			5016.34		5016.34	0.00	5016.34	0
56	Filling in plinth with approved excavated	10.00	cum	21.36/117	113.00			113.00		113.00	0.00	113.00	1130
57	Providing Hard Murum cohesive non-	1475.00	cu m	RA	688.11			688.11	0.00	688.11	0.00	688.11	1014962
58	Compacting the hard murum side widths	5777.00	sq m	2.31/24	19.00			19.00		19.00	0.00	19.00	109763
59	Providing & laying stone metal layer of 20	364.30	cu m	RA	1093.69			1093.69	0.00	1093.69	0.00	1093.69	398431
60	Compacting the sub grade / gravel / size	1622.40	sq m	50.59/334	27.00			27.00		27.00	0.00	27.00	43805
61	Providing and laying in situ Tremix	1479.70	Sq.M	RA	1064.25	0.00	0.00	1064.25	0.00	1064.25	0.00	1064.25	1574771
62	-----Do----- in Crush Sand	0.50	Sq.M	RA	1064.25	0.00	0.00	1064.25	0.00	1064.25	0.00	1064.25	532
63	Providing and casting in situ / ready mix	40.90	Cum	11.30/63	9276	0.00	-120.00	9156.00	0.00	9156.00	0.00	9156.00	374480
64	-----Do----- in Crush Sand	0.50	Cum	11.30/63	9276	0.00	-120.00	9156.00	0.00	9156.00	0.00	9156.00	4578
65	Providing & fixing M.S. angle 50 x 50 x 6	43.20	R M	RA	417.82			417.82	0.00	417.82	0.00	417.82	18050
66	Providing and fabricating structural steel	3004.00	Kgs	23.01/227	89.18			89.18	0.00	89.18	0.00	89.18	267897
67	Providing & Fixing in position M.S. ladder	0.00	R M	RA	1758.99			1758.99		1758.99	0.00	1758.99	0
68	Providing and fixing lioghtening	12.00	RA	RA	2501.00			2501.00		2501.00	0.00	2501.00	30012

69	Providing and fixing Marble plate	<b>0.27</b>	sq m	44.11/281	3972.24		3972.24	3972.24	0.00	3972.24	1073
70	Conveying materials obtained from road	<b>10.00</b>	cu m	2.25/24	177.00		177.00	177.00	0.00	177.00	1770
71	<u>Conveying materials obtained from road</u>	<b>859.00</b>	cu m	5km/lead	220.16		220.16	220.16	0.00	220.16	189117
72	Providing soling using 80 mm size trap	<b>324.89</b>	cum	21.40/118	1322.00	0.00	1322.00	1322.00	0.00	1322.00	429500
73	Providing preconstructional antitermite	<b>1480.00</b>	sq m	21.24/117	94.00		94.00	94.00	0.00	94.00	139120
74	Providing and laying Cast in situ/Ready	<b>10.00</b>	cum	26.19/137	14863.00	0.00 -120.00	14743.00	14743.00	0.00	14743.00	147430
75	Providing and fixing colour coated	<b>10.00</b>	sq m	38.34/173	1095.00		1095.00	1095.00	0.00	1095.00	10950
TOTAL FOR W.H.BLDG										TOTAL RS	<b>15487656</b>

**S.W. II - INTERNAL ROADS**

I.N.	DESCRIPTON OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	D CHARG SAND HM	LIFTS & R.A.	TOTAL	Add % Q.C. Charges 0.005	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	746.00	cum	2.11/23	104.00			104.00		104.00	0.00	104.00	77584
2	Excavation for roadway in hard murum and	5.00	cum	2.13/23	121.00			121.00		121.00	0.00	121.00	605
3	Excavation for roadway in soft rock, including	5.00	cum	2.14/23	157.00			157.00		157.00	0.00	157.00	785
4	Excavation for roadway in hard rock by cutting	5.00	cum	2.15/23	250.00			250.00		250.00	0.00	250.00	1250
5	Providing soling using 80 mm size trap metal	286.00	cum	21.40/118	1322.00	0.00		1322.00		1322.00	0.00	1322.00	378092
6	Supplying 80/60 mm trap stone metal at the rate	247.00	cum	50.56/249	700	0.00		700.00		700.00	0.00	700.00	172900
7	Supplying 40 mm trap stone metal at the rate	165.00	cum	50.55/249	780	0.00		780.00		780.00	0.00	780.00	128700
8	Spreading 80 mm trap stone metal including	247.00	cum	50.58/249	85.00			85.00		85.00	0.00	85.00	20995
9	Spreading 40 mm trap stone metal including	165.00	cum	50.58/249	85.00			85.00		85.00	0.00	85.00	14025
10	Compacting oversize metal layer with H. I	3732.00	sqm	50.59/249	27.00			27.00		27.00	0.00	27.00	100764
13	Providing and constructing 75 mm. thick N	1244.00	Sqm	RA 1080	223.14	0.00		223.14		223.14	0.00	223.14	277586
	Providing and applying tack coat on the pr	1244.00	0.00	RA 1080	14.73			14.73		14.73	0.00	14.73	18324
14	Supplying hard murum/ kankar at the road	104.00	cum	2.29a/24	398.00	0.00		398.00		398.00	0.00	398.00	41392
15	Spreading hard murum/ soft murrum/ grav	104.00	cum	2.30/24	74.00			74.00		74.00	0.00	74.00	7696
18	Compacting the hard murum side widths in	64.00	sqm	2.31/24	19.00			19.00		19.00	0.00	19.00	1216
19	Open Graded Premix Surfacing- Providing	1244.00	sqm	4.12/33	142.00	0.00		142.00		142.00	0.00	142.00	176648
20	9 MM SEAL COAT: Providing and laying o	1244.00	sqm	4.13/33	76.00	0.00		76.00		76.00	0.00	76.00	94544
21	Providing & fixing R. C. C. 1:2:4 guard sto	76.00	Nos	11.27/63	963			963.00		963.00	0.00	963.00	73188
<b>PART II :- CROSS DRAINAGE WORKS</b>													
22	Excavation for foundation in earth, soil of e	17.00	cum	21.02/115	193.00			193.00		193.00	0.00	193.00	3281
23	Excavation for foundation in hard murum in	5.00	cum	21.06/115	212.00			212.00		212.00	0.00	212.00	1060
24	Excavation for foundation in Hard murum i	3.00	cum	21.07/115	403.00			403.00		403.00	0.00	403.00	1209
25	Excavation for foundation in Hard rock by	1.00	cum	21.20/116	1223.00			1223.00		1223.00	0.00	1223.00	1223
26	Providing and laying Cast in situ/Ready Mi	3.00	cum	24.01/131	5538.00	0.00	-120.00	5418.00		5418.00	0.00	5418.00	16254
27	-----Do----- in Crush Sand	1.00	cum	24.01/131	5538	0.00	-120.00	5418.00		5418.00	0.00	5418.00	5418
28	Providing uncoursed rubble masonry of tra	10.00	cum	28.01/146	4757.00	0.00		4757.00		4757.00	0.00	4757.00	47570

29	-----Do----- in Crush Sand	1.00	cum	28.01/146	4757.00	0.00		4757.00		4757.00	0.00	4757.00	4757
30	Providing and fixing in position TMT - FE -	0.50	MT	26.33/139	71778.00			71778.00		71778.00	0.00	71778.00	35889
31	Providing and laying Cast in situ/Ready Mi	3.00	cum	25.50/135	11483.00	0.00	-120.00	11363.00	0.00	11363.00	0.00	11363.00	34089
32	-----Do----- in Crush Sand	0.50	cum	25.50/135	11483.00	0.00	-120.00	11363.00	0.00	11363.00	0.00	11363.00	5682
33	Providing cement plaster 20 mm thick in t	27.00	sqm	32.07+32.0 1/153	557.00	0.00		557.00	0.00	557.00	0.00	557.00	15039
34	-----Do----- in Crush Sand	1.00	sqm	32.07+32. 01/153	557.00	0.00		557.00	0.00	557.00	0.00	557.00	557
35	Providing flush grooved pointing with ceme	4.00	sqm	32.17/153	172.00	0.00		172.00	0.00	172.00	0.00	172.00	688
36	Providing and laying cement concrete pip	10.00	Rmt	20/382	1655			1655.00	0.00	1655.00	0.00	1655.00	16550
37	Supplying & spreading Hard mumrum for c	14.00	cu m	2.27/24	201.00	0.00		201.00	0.00	201.00	0.00	201.00	2814
38	Providing and casting in situ / ready mix P	5.00	cu m	11.30/63	9276	0.00	-120.00	9156.00	0.00	9156.00	0.00	9156.00	45780
39	-----Do----- in Crush Sand	1.00	cu m	11.30/63	9276.00	0.00	-120.00	9156.00	0.00	9156.00	0.00	9156.00	9156
40	Providing earth work in embankment with :	10.00	cum	2.27/24	201.00			201.00		201.00	0.00	201.00	2010
41	Providing earth work in embankment with :	442.00	cum	2.28/24	546.00	0.00		546.00		546.00	0.00	546.00	241332
42	Conveying materials obtained from road c	10.00	cum	2.25/24	177.00			177.00		177.00	0.00	177.00	1770
43	Conveying the materials obtained from ex	746.00	cum	5km/lead	220.16			220.16		220.16	0.00	220.16	164239
TOTAL FOR INTERNAL ROADS											TOTAL RS		2242661



Part - B :- PEB work

1	Above Plinth PEB Structure - providing &	1448.00	Sqm	MR	5000.00		5000.00		5000.00	7240000
2	Turbo ventilator 24"	14.00	No	MR	8680.00	1000.00	1000.00		10680.00	149520
					Supply	Fixing	Polycarbonate			
TOTAL									TOTAL RS	7389520

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