

# MAHARASHTRA STATE WAREHOUSING CORPORATION

583/B, Market Yard, Gultekadi, Pune 411 037.

## Sub work VI:- Material Lab Testing charges

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

Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of tests	Rate per test	Amount	Remarks
1	Cement	6601	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final ), Compressive strength, Soundness	7	7100	49700	one test per 1000 Bag
2	Concrete M-10 grade	73.00	cum	i)Concrete cube compressive strength (Set of 3 Cubes)	0	1300	0	1 test for 15 cum
3	Concrete M-30 grade	448.00	cum	i)Mix Design with all tests on basic materials	1	25900.00	25900	One per 500 cum of cc
				ii)Concrete cube compressive strength (Set of 3 Cubes)	34	1300.00	44200	1 test for 15 cum
4	Concrete M-30 grade	0.00	cum	i)Mix Design with all tests on basic materials	0	25900.00	0	One per 500 cum of cc
				ii)Concrete cube compressive strength(Set of 3 Cubes)	0		0	1 test for 15 cum
						1300.00		
5	Crushed metal for concrete	366.68	cum	i)Water absorption, Specific gravity, Impact value, Crushing value	1	4900	4900	one test per 1000 cum / change in source.
				ii) Gradation	1		0	one test per 200 cum
				iii) Combined Flakiness & Elongation of single metal	1	1600	1600	one test per 500 cum
6	Bricks	37525.00	cum	Crushing value, Water absorption, & Specific Gravity	4	4100	16400	one test per 50000 No or part.
7	Masonry stones	66.00	cum	Crushing value/Compressive strength, water absorption & Specific Gravity	1	3800	3800	one test per source
8	TMT steel bars	58.00	M.T.	Tensile strength ,Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test.(Set of 3 Bars)	6	2400	14400	1 test per 10.00 M.T. of each dia. Of use bar
9	Sand	443.52	cum	Fineness Modulus, silt & clay content.	1	2600	2600	1 test per source

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of tests	Rate per test	Amount	Remarks
10	Murum in plinth	1475.00	cum	i)Plasticity Index	4	900	3600	1 test per 1000 Cum.
				ii) Field Density of compacted layer	8	900	7200	1 test per 250 Sq.m
				iii) Proctor Test	4	1500	6000	1 test per 1000 Cum.
11	Earthwork	442.00	cum	i) Gradation	4	550	2200	1 test per 400 Cum.
	For embankment			i)Plasticity Index	4	2200	8800	1 test per 400 Cum.
	(H.M/S.M.)			iii) Moisture content prior to compaction	4	3500	14000	1 test per 400 Cum.
				iv) Density of compacted layer	2	3500	7000	1 test per 1000 Sq.m
				v) Proctor Test	1	1500	1500	2 test per 3000 Cum.
12	Metal for Road/ Filling metal in plinth	286.00	cum	Basic test on aggregates Water absorption,specific gravity,impact value/crushing value	2	1300	2600	one test per 1000 cum
				ii)Gradation	4	2200	8800	one test per 250 cum
				iii) Combined Flakiness & Elongation	3	1600	4800	one test per 500 cum
				<b>TOTAL</b>			<b>230000</b>	

Jr.Engineer  
MSWC,Aurangabad

Dy.Manager (Engg  
MSWC,Aurangaba

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