

OFFICE OF THE CHIEF ENGINEER
LOCAL SELF GOVERNMENT DEPARTMENT
3RD FLOOR, REVENUE COMPLEX
PUBLIC OFFICE COMPOUND,
THIRUVANANTHAPURAM -33

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No.DB3/6512(B)/13/CE/LSGD

Dated : 03.08.2016

CIRCULAR

Sub:- Approved of Observed Data - Reg.

Ref:- DB3/6512/2013/CE/LSGD(2), dated - 02/05/2016.

Vide the referred circular, the Superintending Engineers & Executive Engineers of District Panchayat were directed to collect, consolidate and submit the observed Data (ODs) being used under their jurisdiction. The ODs thus received have now been consolidated for approval. The consolidated ODs are published along with this circular. The Liaison Officers of each district are hereby directed to check the ODs with other officers of the district and to finalise them. Before approving the above ODs by the Chief Engineer, a discussion on the same is required. As such, all the Liaison Officers are directed to attend the meeting at Chief Engineer's office on **18.08.2016** to finalise the ODs.

The Executive Engineers are also directed to inform the email ID & Mobile numbers of the district Liaison Officer to pricelsgd@gmail.com at the earliest.

Encl: Observed Datas (Draft Only)


CHIEF ENGINEER

The Executive Engineers may verify the following draft Observed Datas with the help of Liason officers of PRICE or other competent Engineers and report the remarks to this office via email to pricelsgd@gmail.com and on the meeting scheduled on 18.08.2016. The next set of draft Observed Datas will be published in the coming days

OBSERVED DATAS AS PER CPWD SCHEDULE OF RATES 2014

- 1 Filling up low lying and water logged areas with local material/quarry muck, spreading in layers, levelling the top at site and consolidation by ramming etc complete

Details of cost for 300 cum

MATERIAL

MR	Soil gravel mixture/quarry waste	cum	384	935	359040.00
	LABOUR				
128	Mate	Day	0.40	363	145.20
139	Skilled Beldar	Day	2.00	363	726.00
114	Beldar	Day	8.00	329	2632.00
	Total				362543.20
	Add water charges 1%				3625.43
	Total				366168.63
	Add CPOH 15%				54925.29
	Total				421093.93

- 2 Supplying and filling sand in foundation trenches of culvert for stabilising the top clay layer including watering ramming consolidating and dressing etc complete.

Details of cost for 10 cum

MATERIAL

982	Coarse sand (zone III)	cum	10	1200	12000.00
2335	Carriage of Coarse sand (zone III)	cum	10	106.49	1064.90
	LABOUR				
114	Beldar	day	0.89	329	292.81
115	Coolie	day	1.07	329	352.03
101	Bhisti	day	0.35	363	127.05
	Total				13836.79
	Add water charges 1%				138.37
	Total				13975.16
	Add CPOH 15%				2096.27
	Total				16071.43
	for 1 cum				1607.14316

- 3 Providing and laying in position cement concrete 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size(60%) and 20mm nominal size (40%) excluding the cost of centering and shuttering upto plinth level.

(modified the item 4.1.6)

Details of cost for 1 cum

MATERIAL:

293	Stone Aggregate (Single size) : 40 mm	cum	0.53	1050	556.50
295	Stone Aggregate (Single size) : 20 mm	cum	0.36	1175	423.00
	Carriage of stone aggregate 40 mm nominal size and				
2206	above	cum	0.53	115.75	61.35
2202	Carriage of stone aggregate below 40 mm	cum	0.36	106.49	38.34
982	Coarse sand (zone III)	cum	0.47	1200	564.00
2203	Carriage of coarse sand	cum	0.47	106.49	50.05
367	Portland Cement (0.2833 cum)	tonne	0.22	6300	1386.00
2209	Carriage of cement	tonne	0.22	94.65	20.82
	LABOUR:				
155	Mason (average)	day	0.1	417	41.70

114 Beldar	day	1.63	329	536.27
101 Bhisti	day	0.7	363	254.10
Hire charges of Concrete Mixer 0.25 to 0.40 cum with				
2 Hopper	day	0.07	800	56.00
12 Vibrator (Needle type 40 mm)		0.07	350	24.50
9999 Sundries	L.S.	13.52	1.78	24.07
Total				4036.69
Add water charges 1%				40.37
Total				4077.06
Add CPOH 15%				611.56
Total				4688.62

- 4 Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502(low porosity).(MORD 502)

Unit = sqm

Taking output = 1750 sq.m

MATERIAL

0310	Bitumen emulsion (SS-1) @ 0.85 kg per sqm	T	1.48	39040.00	57779.20
LABOUR					
0128	Mate	Nos	0.04	363.00	14.52
0114	Beldar	Nos	1.00	329.00	329.00
MACHINERY					
0060	Hydraulic broom @ 1250 sqm per hour	hour	1.40	360.00	504.00
0058	Air compressor 210 cfm	hour	1.40	325.00	455.00
	Bitumen emulsion pressure distributor @ 1750 sqm	hour	1.00	800.00	800.00
0061	per hour				
0057	Water tanker 6 kl capacity 1 trip per hour	hour	0.50	150.00	75.00
					59956.72
Add water charges @ 1% on					599.57
					60556.29
Add C.P & OH @15% on					9083.44
Cost for 1750.00 Sqm					69639.73
Rate per One Sqm:					39.79

- 5 Laterite rough stone dry packing for aprons and revetments including cost and conveyance of all materials and all labour charges etc. complete.

Details of Cost for : 1.00 Cum

MATERIALS :

MR	Laterite Boulder	cum	1.05	450.00	472.50
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LABOUR:

155	Mason 1st Class	Day	0.35	417.00	145.95
114	Mason IInd Class	Day	0.70	329.00	230.30
114	Coolie	Day	0.70	329.00	230.30
Total					1,079.05
Add water charges @ 1% on					10.79
Total					1,089.84
Add C.P & OH @15% on					163.48
Cost for 1.00 Cum					1,253.32

PS: The second set of draft Observed Datas will be published in the coming days