

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 6735,6736,6743,6744,6753,6754,6781/Lab/70/2023 - 24 Dated:- 23/05/2023. Laboratory : Bicholim - Goa.
6782,6820,6830,6831,6835,6842,6846,6855,6865,6868,6876,6887,6888,6907,6917,6930,6938,6941,6953,6968. Sub Division V (QC)/WRD/ Bicholim- Goa.
Name of work : Development of the existing water harvesting site at Fodvem at Khobra waddo in V.P. Calangute in Calangute Constituency.

Ref. to Requisition No : SDII/WDI/WRD/F.24/2023-24/43 Dt.:- 24/04/2023

Qty. Recived : **27** Sets of cube Date of Receipt:- 24/04/2023.

Tested on: 24,25,26,28,29/04/2023 & 01,02,03,04,06,08,09,10,11,13,15,16,17,18,19,20/05/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** O.S No: 1113,1114,1154,1163,1164,1168,1184,1198,1215,1223,1226,1238,1253/RK & 716,717,724,725,734,735,766,775,780,799,803,811,824,825/SS.

Lab. Sample No: 6892 to 6918 Tested By : Mrs. R.R. Kadam A.E & Mrs. S. B. Naik Shirodkar J.E.

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix 1:2:4 , cast on 27/03/2023. for Foundation LHS for 27 mtrs.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 25.00 M3 for two sets of cube.
			208.40	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
2	Cement concrete cube of mix 1:2:4 , cast on 27/03/2023. for Foundation LHS for 27 mtrs.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	4.27	---do---
			210.67	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
3	Cement concrete cube of mix 1:2:4 , cast on 28/03/2023. for Foundation LHS for 25 mtrs.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 25.00 M3 for two sets of cube.
			201.61	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
4	Cement concrete cube of mix 1:2:4 , cast on 28/03/2023. for Foundation LHS for 25 mtrs.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	3.91	---do---
			224.26	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	218.22	Kg/Cm²			

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
5	Cement concrete cube of mix 1:2:4 , cast on 29/03/2023. for Foundation LHS for 35 mtrs.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 33.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
6	Cement concrete cube of mix 1:2:4 , cast on 29/03/2023. for Foundation LHS for 35 mtrs.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	---do---
			215.20	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4 , cast on 31/03/2023. for Foundation LHS for 15 & 10 mtrs.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 25.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4 , cast on 31/03/2023. for Foundation LHS for 15 & 10 mtrs.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.55	---do---
			215.20	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4 , cast on 01/04/2023. for Foundation LHS for 20 mtrs.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 20.00 M3
			210.67	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4 , cast on 03/04/2023. for Foundation LHS for 25 mtrs.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 25.00 M3
			215.20	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4 , cast on 03/04/2023. for Foundation LHS for 25 mtrs.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	4.27	---do---
			212.93	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4 , cast on 04/04/2023. for Foundation RHS for 20 mtrs.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents - 20.00 M3
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	231.06	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
13	Cement concrete cube of mix 1:2:4 , cast on 05/04/2023. for Foundation RHS for 20 mtrs.	28 th day compressive strength	240.12	Ka/Cm ²	210.00 Kg/cm ²	15.06	Qty represents - 20.00 M3
			237.85	Ka/Cm ²			
			246.91	Ka/Cm ²			
			Average	241.63			
14	Cement concrete cube of mix 1:2:4 , cast on 06/04/2023. for Foundation RHS for 20 mtrs.	28 th day compressive strength	237.85	Ka/Cm ²	210.00 Kg/cm ²	11.47	Qty represents - 20.00 M3
			233.32	Ka/Cm ²			
			231.06	Ka/Cm ²			
			Average	234.08			
15	Cement concrete cube of mix 1:2:4 , cast on 08/04/2023. for Foundation RHS for 20 mtrs.	28 th day compressive strength	235.59	Ka/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 20.00 M3
			251.44	Ka/Cm ²			
			212.93	Ka/Cm ²			
			Average	233.32			
16	Cement concrete cube of mix 1:2:4 , cast on 10/04/2023. for Foundation RHS for 20 mtrs.	28 th day compressive strength	237.85	Ka/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 20.00 M3
			226.53	Ka/Cm ²			
			208.40	Ka/Cm ²			
			Average	224.26			
17	Cement concrete cube of mix 1:2:4 , cast on 11/04/2023. for 1st Lift LHS for 27 mtrs.	28 th day compressive strength	217.47	Ka/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 19.00 M3
			231.06	Ka/Cm ²			
			215.20	Kg/Cm ²			
			Average	221.24			
18	Cement concrete cube of mix 1:2:4 , cast on 12/04/2023. for 1st Lift LHS for 25 mtrs.	28 th day compressive strength	203.87	Ka/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 18.00 M3
			215.20	Ka/Cm ²			
			235.59	Ka/Cm ²			
			Average	218.22			
19	Cement concrete cube of mix 1:2:4 , cast on 13/04/2023. for 1st Lift LHS for 35 mtrs.	28 th day compressive strength	212.93	Ka/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 25.00 M3
			231.06	Ka/Cm ²			
			219.73	Kg/Cm ²			
			Average	221.24			
20	Cement concrete cube of mix 1:2:4 , cast on 13/04/2023. for 1st Lift LHS for 35 mtrs.	28 th day compressive strength	237.85	Ka/Cm ²	210.00 Kg/cm ²	7.15	---do---
			226.53	Ka/Cm ²			
			210.67	Ka/Cm ²			
			Average	225.02			

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
21	Cement concrete cube of mix 1:2:4 , cast on 15/04/2023. for 1st Lift LHS for 15 & 10 mtrs.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 17.00 M3
			203.87	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
22	Cement concrete cube of mix 1:2:4 , cast on 17/04/2023. for 1st Lift LHS for 20 mtrs.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 15.00 M3
			208.40	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
23	Cement concrete cube of mix 1:2:4 , cast on 18/04/2023. for 1st Lift LHS for 25 mtrs.	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 20.00 M3
			228.79	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4 , cast on 19/04/2023. for 1st Lift LHS for 20 mtrs.	28 th day compressive strength	197.08	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 14.00 M3
			233.32	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4 , cast on 20/04/2023. for 1st Lift LHS for 20 mtrs.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 14.00 M3
			228.79	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 21/04/2023. for 1st Lift LHS for 20 mtrs.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 14.00 M3
			203.87	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4 , cast on 22/04/2023. for 1st Lift LHS for 20 mtrs.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 14.00 M3
			226.53	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	226.53	Kg/Cm²			

- Copy to: 1. The Assistant Engineer, SDII, WDI, WRD, Mapusa Bardez - Goa.
2. Copy submitted to The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.
3. Copy submitted to The Executive Engineer, WDI, WRD, Porvorim - Goa.
4. QC Lab File. 5. Bill File.

Assistant Engineer