

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 7363 To 7366, 7400 To 7405,/ Lab / **232**/ 2019 - 20 Dated:- 06/ 07 / 2019 Laboratory : Bicholim - Goa.
7427,7428,7473 To 7476,7494 To7497,7521 To 7524,7542 To 7545,7575,7576,7591 To7594,7635 To7638 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of Work: - Improvement to the damaged existing bund from Candolim bridge to Sinquerim in V.P. Candolim in Calangute Constituency.

Ref. to Requisition No.: SDII/WDI/WRD/ F.24 /2019-20/144 dated :-17/06/2019.

Qty. Recived. : 38 Sets of cube Date of Receipt: 21/06/2019. Tested on: 22/06/2019 To 04/07/2019. as per due dates. Ref to CPWD :2002, Vol. I

Sample: Cube 1:2:4 Mix O.S No. :2299 to 2302,2306 to 2311,2326,2327,2372 to 2375,2393 to 2396,2420 to 2423,2441 to 2444,2457, 2458,

2469 to 2472/SS,1015 to1018/AF Lab. Sample No.: 6321 to 6358 Tested By: Mrs. S.B. Naik Shirodkar. J.E. & Mr. Anil R. Fadte. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1:2:4 , cast on 24/05/2019, for Foundation ch.0.00 to 30.00 mt.	28 th day compressive strength	226.53	Kg/Cm2	210 kg/cm2	4.63	Quantity represents 30.00 Cum for two sets of cubes.
			194.81	Kg/Cm2			
			237.85	Kg/Cm2			
		Average	219.73	Kg/Cm2			
2	Plain Cement concrete cube of mix 1:2:4 , cast on 24/05/2019, for Foundation ch.0.00 to 30.00 mt.	28 th day compressive strength	237.85	Kg/Cm2	210 kg/cm2	14.34	... Do ...
			249.18	Kg/Cm2			
			233.32	Kg/Cm2			
		Average	240.12	Kg/Cm2			
3	Plain Cement concrete cube of mix 1:2:4 , cast on 24/05/2019, for Foundation ch.30.00 to 60.00 mt.	28 th day compressive strength	201.61	Kg/Cm2	210 kg/cm2	5.35	Quantity represents 30.00 Cum for two sets of cubes.
			235.59	Kg/Cm2			
			226.53	Kg/Cm2			
		Average	221.24	Kg/Cm2			
4	Plain Cement concrete cube of mix 1:2:4 , cast on 24/05/2019, for Foundation ch.30.00 to 60.00 mt.	28 th day compressive strength	242.38	Kg/Cm2	210 kg/cm2	17.22	... Do ...
			226.53	Kg/Cm2			
			269.57	Kg/Cm2			
		Average	246.16	Kg/Cm2			
5	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 1 st lift ch.00.00 to 30.00 mt.	28 th day compressive strength	219.73	Kg/Cm2	210 kg/cm2	6.43	Quantity represents 25.00 Cum for two sets of cubes.
			217.47	Kg/Cm2			
			233.32	Kg/Cm2			
		Average	223.51	Kg/Cm2			
6	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 1 st lift ch.00.00 to 30.00 mt.	28 th day compressive strength	208.40	Kg/Cm2	210 kg/cm2	3.20	... Do ...
			215.20	Kg/Cm2			
			226.53	Kg/Cm2			
		Average	216.71	Kg/Cm2			

Junior Engineer

Assistant Engineer

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 1 st lift ch.30.00 to 60.00 mt.	28 th day compressive strength	237.85	Kg/Cm2	210 kg/cm2	4.99	Quantity represents 20.00 Cum for two sets of cubes.
			217.47	Kg/Cm2			
			206.14	Kg/Cm2			
		Average	220.49	Kg/Cm2			
8	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 1 st lift ch.30.00 to 60.00 mt.	28 th day compressive strength	246.91	Kg/Cm2	210 kg/cm2	5.71	... Do ...
			203.87	Kg/Cm2			
			215.20	Kg/Cm2			
		Average	222.00	Kg/Cm2			
9	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 2 nd lift ch.60.00 to 120.00 mt.	28 th day compressive strength	219.73	Kg/Cm2	210 kg/cm2	6.43	Quantity represents 36.00 Cum for two sets of cubes.
			242.38	Kg/Cm2			
			208.40	Kg/Cm2			
		Average	223.51	Kg/Cm2			
10	Plain Cement concrete cube of mix 1:2:4 , cast on 25/05/2019, for 2 nd lift ch.60.00 to 120.00 mt.	28 th day compressive strength	215.20	Kg/Cm2	210 kg/cm2	8.23	... Do ...
			222.00	Kg/Cm2			
			244.65	Kg/Cm2			
		Average	227.28	Kg/Cm2			
11	Plain Cement concrete cube of mix 1:2:4 , cast on 27/05/2019, for 2 nd lift ch.00.00 to 60.00 mt.	28 th day compressive strength	222.00	Kg/Cm2	210 kg/cm2	9.67	Quantity represents 36.00 Cum for two sets of cubes.
			242.38	Kg/Cm2			
			226.53	Kg/Cm2			
		Average	230.30	Kg/Cm2			
12	Plain Cement concrete cube of mix 1:2:4 , cast on 27/05/2019, for 2 nd lift ch.00.00 to 60.00 mt.	28 th day compressive strength	231.06	Kg/Cm2	210 kg/cm2	10.39	... Do ...
			246.91	Kg/Cm2			
			217.47	Kg/Cm2			
		Average	231.81	Kg/Cm2			
13	Plain Cement concrete cube of mix 1:2:4 , cast on 29/05/2019, for Foundation ch.60.00 to 90.00 mt.	28 th day compressive strength	203.87	Kg/Cm2	210 kg/cm2	4.63	Quantity represents 30.00 Cum for two sets of cubes.
			222.00	Kg/Cm2			
			233.32	Kg/Cm2			
		Average	219.73	Kg/Cm2			
14	Plain Cement concrete cube of mix 1:2:4 , cast on 29/05/2019, for Foundation ch.60.00 to 90.00 mt.	28 th day compressive strength	231.06	Kg/Cm2	210 kg/cm2	11.11	... Do ...
			226.53	Kg/Cm2			
			242.38	Kg/Cm2			
		Average	233.32	Kg/Cm2			
15	Plain Cement concrete cube of mix 1:2:4 , cast on 29/05/2019, for Foundation ch.90.00 to 120.00 mt.	28 th day compressive strength	249.18	Kg/Cm2	210 kg/cm2	13.62	Quantity represents 30.00 Cum for two sets of cubes.
			237.85	Kg/Cm2			
			228.79	Kg/Cm2			
		Average	238.61	Kg/Cm2			

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
16	Plain Cement concrete cube of mix 1:2:4 , cast on 29/05/2019, for Foundation ch.90.00 to 120.00 mt.	28 th day compressive strength	217.47	Kg/Cm2	210 kg/cm2	7.51	Quantity represents 30.00 Cum for two sets of cubes.
			215.20	Kg/Cm2			
			244.65	Kg/Cm2			
			Average	225.77			
17	Plain Cement concrete cube of mix 1:2:4 , cast on 30/05/2019, for 1st lift ch.60.00 to 90.00 mt.	28 th day compressive strength	208.40	Kg/Cm2	210 kg/cm2	5.71	Quantity represents 25.00 Cum for two sets of cubes.
			224.26	Kg/Cm2			
			233.32	Kg/Cm2			
			Average	222.00			
18	Plain Cement concrete cube of mix 1:2:4 , cast on 30/05/2019, for 1st lift ch.60.00 to 90.00 mt.	28 th day compressive strength	235.59	Kg/Cm2	210 kg/cm2	7.51	... Do ...
			215.20	Kg/Cm2			
			226.53	Kg/Cm2			
			Average	225.77			
19	Plain Cement concrete cube of mix 1:2:4 , cast on 30/05/2019, for 1st lift ch.90.00 to 120.00 mt.	28 th day compressive strength	226.53	Kg/Cm2	210 kg/cm2	6.43	Quantity represents 25.00 Cum for two sets of cubes.
			203.87	Kg/Cm2			
			240.12	Kg/Cm2			
			Average	223.51			
20	Plain Cement concrete cube of mix 1:2:4 , cast on 30/05/2019, for 1st lift ch.90.00 to 120.00 mt.	28 th day compressive strength	249.18	Kg/Cm2	210 kg/cm2	12.90	... Do ...
			235.59	Kg/Cm2			
			226.53	Kg/Cm2			
			Average	237.10			
21	Plain Cement concrete cube of mix 1:2:4 , cast on 31/05/2019, for Foundation ch.120.00 to 150.00 mt.	28 th day compressive strength	215.20	Kg/Cm2	210 kg/cm2	6.79	Quantity represents 30.00 Cum for two sets of cubes.
			237.85	Kg/Cm2			
			219.73	Kg/Cm2			
			Average	224.26			
22	Plain Cement concrete cube of mix 1:2:4 , cast on 31/05/2019, for Foundation ch.120.00 to 150.00 mt.	28 th day compressive strength	249.18	Kg/Cm2	210 kg/cm2	17.22	... Do ...
			262.77	Kg/Cm2			
			226.53	Kg/Cm2			
			Average	246.16			
23	Plain Cement concrete cube of mix 1:2:4 , cast on 31/05/2019, for Foundation ch.150.00 to 180.00 mt.	28 th day compressive strength	217.47	Kg/Cm2	210 kg/cm2	9.67	Quantity represents 30.00 Cum for two sets of cubes.
			246.91	Kg/Cm2			
			226.53	Kg/Cm2			
			Average	230.30			
24	Plain Cement concrete cube of mix 1:2:4 , cast on 31/05/2019, for Foundation ch.150.00 to 180.00 mt.	28 th day compressive strength	222.00	Kg/Cm2	210 kg/cm2	8.59	... Do ...
			253.71	Kg/Cm2			
			208.40	Kg/Cm2			
			Average	228.04			

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
25	Plain Cement concrete cube of mix 1:2:4 , cast on 01/06/2019, for 1st lift ch.120.00 to 150.00 mt.	28 th day compressive strength	219.73	Kg/Cm2	210 kg/cm2	8.59	Quantity represents 25.00 Cum for two sets of cubes.
			206.14	Kg/Cm2			
			258.24	Kg/Cm2			
		Average	228.04	Kg/Cm2			
26	Plain Cement concrete cube of mix 1:2:4 , cast on 01/06/2019, for 1st lift ch.120.00 to 150.00 mt.	28 th day compressive strength	210.67	Kg/Cm2	210 kg/cm2	7.51	... Do ...
			217.47	Kg/Cm2			
			249.18	Kg/Cm2			
		Average	225.77	Kg/Cm2			
27	Plain Cement concrete cube of mix 1:2:4 , cast on 01/06/2019, for 1st lift ch.150.00 to 180.00 mt.	28 th day compressive strength	262.77	Kg/Cm2	210 kg/cm2	9.67	Quantity represents 25.00 Cum for two sets of cubes.
			222.00	Kg/Cm2			
			206.14	Kg/Cm2			
		Average	230.30	Kg/Cm2			
28	Plain Cement concrete cube of mix 1:2:4 , cast on 01/06/2019, for 1st lift ch.150.00 to 180.00 mt.	28 th day compressive strength	235.59	Kg/Cm2	210 kg/cm2	4.99	... Do ...
			217.47	Kg/Cm2			
			208.40	Kg/Cm2			
		Average	220.49	Kg/Cm2			
29	Plain Cement concrete cube of mix 1:2:4 , cast on 03/06/2019, for 2nd lift ch.120.00 to 180.00 mt.	28 th day compressive strength	222.00	Kg/Cm2	210 kg/cm2	5.71	Quantity represents 36.00 Cum for two sets of cubes.
			212.93	Kg/Cm2			
			231.06	Kg/Cm2			
		Average	222.00	Kg/Cm2			
30	Plain Cement concrete cube of mix 1:2:4 , cast on 03/06/2019, for 2nd lift ch.120.00 to 180.00 mt.	28 th day compressive strength	246.91	Kg/Cm2	210 kg/cm2	14.34	... Do ...
			251.44	Kg/Cm2			
			222.00	Kg/Cm2			
		Average	240.12	Kg/Cm2			
31	Plain Cement concrete cube of mix 1:2:4 , cast on 04/06/2019, for Foundation ch.180.00 to 210.00 mt.	28 th day compressive strength	253.71	Kg/Cm2	210 kg/cm2	10.03	Quantity represents 30.00 Cum for two sets of cubes.
			212.93	Kg/Cm2			
			226.53	Kg/Cm2			
		Average	231.06	Kg/Cm2			
32	Plain Cement concrete cube of mix 1:2:4 , cast on 04/06/2019, for Foundation ch.180.00 to 210.00 mt.	28 th day compressive strength	219.73	Kg/Cm2	210 kg/cm2	8.59	... Do ...
			231.06	Kg/Cm2			
			233.32	Kg/Cm2			
		Average	228.04	Kg/Cm2			

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
33	Plain Cement concrete cube of mix 1:2:4 , cast on 04/06/2019, for Foundation ch.210.00 to 240.00 mt.	28 th day compressive strength	208.40	Kg/Cm2	210 kg/cm2	6.07	Quantity represents 30.00 Cum for two sets of cubes.
			224.26	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	222.75	Kg/Cm2			
34	Plain Cement concrete cube of mix 1:2:4 , cast on 04/06/2019, for Foundation ch.210.00 to 240.00 mt.	28 th day compressive strength	233.32	Kg/Cm2	210 kg/cm2	10.75	... Do ...
			219.73	Kg/Cm2			
			244.65	Kg/Cm2			
		Average	232.57	Kg/Cm2			
35	Plain Cement concrete cube of mix 1:2:4 , cast on 06/06/2019, for 1st lift ch.120.00 to 150.00 mt.	28 th day compressive strength	253.71	Kg/Cm2	210 kg/cm2	13.62	Quantity represents 25.00 Cum for two sets of cubes.
			224.26	Kg/Cm2			
			237.85	Kg/Cm2			
		Average	238.61	Kg/Cm2			
36	Plain Cement concrete cube of mix 1:2:4 , cast on 06/06/2019, for 1st lift ch.120.00 to 150.00 mt.	28 th day compressive strength	274.10	Kg/Cm2	210 kg/cm2	11.82	... Do ...
			208.40	Kg/Cm2			
			222.00	Kg/Cm2			
		Average	234.83	Kg/Cm2			
37	Plain Cement concrete cube of mix 1:2:4 , cast on 06/06/2019, for 1st lift ch.150.00 to 180.00 mt.	28 th day compressive strength	222.00	Kg/Cm2	210 kg/cm2	4.99	Quantity represents 25.00 Cum for two sets of cubes.
			210.67	Kg/Cm2			
			228.79	Kg/Cm2			
		Average	220.49	Kg/Cm2			
38	Plain Cement concrete cube of mix 1:2:4 , cast on 06/06/2019, for 1st lift ch.150.00 to 180.00 mt.	28 th day compressive strength	219.73	Kg/Cm2	210 kg/cm2	6.07	... Do ...
			224.26	Kg/Cm2			
			224.26	Kg/Cm2			
		Average	222.75	Kg/Cm2			

Copy to: 1. The Assistant Engineer ,SD II,WD I,WRD, Mapusa - Goa.

2. Copy submitted to the Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. Copy submitted to the Executive Engineer ,WD I,WRD, Porvorim Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer