

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 2288,2289,2302,2303,2324,2325,2330,2331,2347/ Lab /149/ 2021 - 22 Dated:-12/07/ 2021. Laboratory : Bicholim - Goa
,2348,2350,2351,2361,2362,2371,2372,2390,2391,2392,2427,2428,2429,2443,2444,2462,2463,2470,2471,2476,2477 Sub Division V (QC)/WRD/ Bicholim- Goa
,2487,2513,2521,2532,2543,2555

Name of work : Improvement of damaged existing bund from Nerul bridge to Siquerim in V.P.Candolim Bardez in Calangute Constituency.

Ref. to Requisition No.:SDII/WDI/WRD/F.24/21-22/88 Dated :- 14/ 06 / 2021.

Qty. Received. :37 Sets of cube Date of Receipt:- 17/ 06 / 2021. Tested on: -17,18,19,21 to 26,28,29,30/06/2021 & 01,02,03,05,06 to 09/07/2021 as per due dates.

Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No.:6521,6522,6535,6536,6557,6558,6563,6564,6580,6581,6583,6584,6596,6597,6608,6609,6629,6630,6631,6667,6668,6669,6684/SS
,6685,6703,6704,6711,6712,6717,6718,6729,6759,6768,6780,6791,6803 Lab. Sample No.: 1891 to1926 Tested By: Mrs. Shirodkar. J.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix 1 : 2: 4 , cast on 20/05/2021.For Ch 1248 to Ch 1278 foundation.	28 th day compressive strenath	201.61	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 28.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			251.44	Kg/Cm ²			
			Average	228.04			
2	Cement concrete cube of mix 1 : 2: 4 , cast on 20/05/2021.For Ch 1248 to Ch 1278 foundation.	28 th day compressive strenath	203.87	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			244.65	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	228.04			
3	Cement concrete cube of mix 1 : 2: 4 , cast on 21/05/2021.For Ch 1278 to Ch 1308 foundation.	28 th day compressive strenath	208.40	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 28.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	218.98			
4	Cement concrete cube of mix 1 : 2: 4 , cast on 21/05/2021.For Ch 1278 to Ch 1308 foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	----- do -----
			203.87	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	216.71			
5	Cement concrete cube of mix 1 : 2: 4 , cast on 22/05/2021.For Ch 1308 to Ch 1338 foundation.	28 th day compressive strenath	208.40	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 28.00 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			228.79	Kg/Cm ²			
			Average	218.98			

Junior Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
6	Cement concrete cube of mix 1 : 2: 4 , cast on 22/05/2021.For Ch 1308 to Ch 1338 foundation.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 28.00 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			199.34	Kg/Cm ²			
			Average	215.95			
7	Cement concrete cube of mix 1 : 2: 4 , cast on 24/05/2021.For Ch 1338 to Ch 1368 foundation.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents - 28.00 Cum for two sets of cubes.
			249.18	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	240.12			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 24/05/2021.For Ch 1338 to Ch 1368 foundation.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	223.51			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 25/05/2021.For Ch.1248 to Ch 1278-(1 st lift).	28 th day compressive strength	199.34	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 25.00 Cum for two sets of cubes.
			224.26	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	216.71			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 25/05/2021.For Ch.1248 to Ch 1278-(1 st lift).	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.87	----- do -----
			226.53	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	226.53			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 26/05/2021.For Ch.1278 to Ch 1308-(1 st lift).	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 25.00 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	215.95			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 26/05/2021.For Ch.1278 to Ch 1308-(1 st lift).	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			228.79	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	219.73			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
13	Cement concrete cube of mix 1 : 2: 4 , cast on 27/05/2021.For Ch.1308 to Ch 1338-(1 st lift).	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	2.12	Qty represents - 25.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	214.44			
14	Cement concrete cube of mix 1 : 2: 4 , cast on 27/05/2021.For Ch.1308 to Ch 1338-(1 st lift).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			237.85	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	219.73			
15	Cement concrete cube of mix 1 : 2: 4 , cast on 28/05/2021.For Ch.1338 to Ch 1368-(1 st lift).	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 25.00 Cum for two sets of cubes.
			217.47	Kg/Cm ²			
			206.14	Kg/Cm ²			
			Average	218.22			
16	Cement concrete cube of mix 1 : 2: 4 , cast on 28/05/2021.For Ch.1338 to Ch 1368-(1 st lift).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	3.20	----- do -----
			203.87	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	216.71			
17	Cement concrete cube of mix 1 : 2: 4 , cast on 29/05/2021.For Ch.1248 to Ch 1278-(2 nd lift).	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents -18.00 Cum.
			208.40	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	218.22			
18	Cement concrete cube of mix 1 : 2: 4 , cast on 29/05/2021.For Ch.1368 to Ch 1428- foundation.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents - 28.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	235.59			
19	Cement concrete cube of mix 1 : 2: 4 , cast on 29/05/2021.For Ch.1368 to Ch 1428- foundation.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	3.91	----- do -----
			210.67	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	218.22			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
20	Cement concrete cube of mix 1 : 2: 4 , cast on 31/05/2021.For Ch.1278 to Ch 1308-(2 nd lift).	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 18.00 Cum.
			212.93	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
21	Cement concrete cube of mix 1 : 2: 4 , cast on 31/05/2021.For Ch 1428 toCh 1458- foundation.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 28.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
22	Cement concrete cube of mix 1 : 2: 4 , cast on 31/05/2021.For Ch 1428 toCh 1458- foundation.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	4.27	----do----
			208.40	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
23	Cement concrete cube of mix 1 : 2: 4 , cast on 01/06/2021.For Ch.1308 to Ch 1338-(2 nd lift).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 18.00 Cum.
			235.59	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
24	Cement concrete cube of mix 1 : 2: 4 , cast on 01/06/2021.For Ch 1458 to Ch 1482 foundation.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 23.00 Cum.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
25	Cement concrete cube of mix 1 : 2: 4 , cast on 02/06/2021.For Ch 1338 to Ch 1368 -(2 nd lift).	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 18.00 Cum.
			237.85	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
26	Cement concrete cube of mix 1 : 2: 4 , cast on 02/06/2021.For Ch 1482 to Ch 1493 foundation.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 10.00 Cum.
			219.73	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	216.71	Kg/Cm²			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
27	Cement concrete cube of mix 1 : 2: 4 , cast on 03/06/2021.For Ch.1368 to Ch 1482 (1 st lift).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 25.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
28	Cement concrete cube of mix 1 : 2: 4 , cast on 03/06/2021.For Ch.1368 to Ch 1482 (1 st lift).	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.27	----- do -----
			219.73	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
29	Cement concrete cube of mix 1 : 2: 4 , cast on 04/06/2021.For Ch.1428 to Ch 1458 (1 st lift).	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 25.00 Cum for two sets of cubes.
			217.47	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
30	Cement concrete cube of mix 1 : 2: 4 , cast on 04/06/2021.For Ch.1428 to Ch 1458 (1 st lift).	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	3.20	----- do -----
			215.20	Kg/Cm ²			
			206.14	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
31	Cement concrete cube of mix 1 : 2: 4 , cast on 05/06/2021.For Ch.1458 to Ch 1482 (1 st lift).	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 20.00 Cum.
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
32	Cement concrete cube of mix 1 : 2: 4 , cast on 07/06/2021.For Ch.1482 to Ch 1493 (1 st lift).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 10.00 Cum.
			231.06	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
33	Cement concrete cube of mix 1 : 2: 4 , cast on 08/06/2021.For Ch 1368 to Ch 1482 (2 nd lift).	28 th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 18.00 Cum.
			226.53	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	229.55	Kg/Cm²			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
34	Cement concrete cube of mix 1 : 2: 4 , cast on 09/06/2021.For Ch 1482 to Ch 1458 (2 nd lift).	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 18.00 Cum.
			226.53	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
35	Cement concrete cube of mix 1 : 2: 4 , cast on 10/06/2021.For Ch 1458 to Ch 1482 (2 nd lift).	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	12.54	Qty represents - 15.00 Cum.
			244.65	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
36	Cement concrete cube of mix 1 : 2: 4 , cast on 11/06/2021.For Ch 1482 to Ch 1493 (2 nd lift).	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 10.00 Cum.
			215.20	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	230.30	Kg/Cm²			

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

4. QC Lab File. 5. Bill File.

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