

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2907,2908,2915,2916,2923,2924,2927,/ Lab /282 / 2021 - 22 Dated:- 05/ 02/2022.
2928,2933,2934,2936,2937,2941,2942,2945,2946, 2963,2964,2974,2975,2981,2982,2998,2999,3015,3016,3038,
3039,3046,3047,3057,3058,3073,3074,3077,3078,3085,3086,3091 & 3092

Laboratory : Bicholim - Goa.
Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work :Construction of flood protection wall at Bhatirwada in village Morjim in Pednem taluka.

Ref. to Requisition No.: MI/SDIII/WDI/F-58/2021-22/336

Dt.:- 04/ 01/ 2022

Qty. Recived. : 40 Sets of cube Date of Receipt:- 05/01/2022. Tested on: 07,08,10,11,12,13,14,15,17,18,19,20,21,24,25,26,27,28,29 & 30/01/2022as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No.

:7296,7297,7306,7307,7314,7315,7322,7323,7331,7332,7334,7335,7339,7340,7343,7344,7365,7366,7380,7381,7389,7390,7409,7410,7426,7427,7456,7457,7469,7470,7482,7483,7502,7503,7512,7513,7521,7522,7535 & 7536/SS Lab. Sample No.: 2600 to 2639 Tested By: 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 10/12/2021. For Ch 0.00 to 45.00 (1).	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	2.48	Qty represents -45.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	215.20	Kg/Cm²			
2	Cement concrete cube of mix 1:2:4, cast on 10/12/2021. For Ch 0.00 to 45.00 (1).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	7.15	-do-
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
3	Cement concrete cube of mix 1:2:4, cast on 11/12/2021. For Ch 45.00 to 90.00 (1).	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents -45.00 Cum for two sets of cubes.
			199.34	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
4	Cement concrete cube of mix 1:2:4, cast on 11/12/2021. For Ch 45.00 to 90.00 (1).	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	2.48	-do-
			226.53	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	215.20	Kg/Cm²			
5	Cement concrete cube of mix 1:2:4, cast on 13/12/2021. For Ch 90.00 to 150.00 (1).	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents -40.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	219.73	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix 1:2:4, cast on 13/12/2021. For Ch 90.00 to 150.00 (1).	28 th day compressive strenath	231.06	Kg/Cm ²	210.00 Kg/cm ²	3.55	Qty represents -40.00 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4, cast on 14/12/2021. For Ch 0.00 to 45.00 (2).	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	12.90	Qty represents -42.00 Cum for two sets of cubes.
			249.18	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4, cast on 14/12/2021. For Ch 0.00 to 45.00 (2).	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	15.42	-do-
			253.71	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	242.38	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4, cast on 15/12/2021. For Ch 45.00 to 120.00 (2).	28 th day compressive strenath	246.91	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents -42.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	235.59	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4, cast on 15/12/2021. For Ch 45.00 to 120.00 (2).	28 th day compressive strenath	251.44	Kg/Cm ²	210.00 Kg/cm ²	12.54	-do-
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4, cast on 16/12/2021. For Ch 0.00 to 40.00 (3).	28 th day compressive strenath	224.26	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents -18.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4, cast on 16/12/2021. For Ch 0.00 to 40.00 (3).	28 th day compressive strenath	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.98	-do-
			237.85	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
13	Cement concrete cube of mix 1:2:4, cast on 17/12/2021. For Ch 150.00 to 210.00 (1).	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents -40.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	220.49	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
14	Cement concrete cube of mix 1:2:4, cast on 17/12/2021. For Ch 150.00 to 210.00 (1).	28 th day compressive strenath	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents -40.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
15	Cement concrete cube of mix 1:2:4, cast on 18/12/2021. For Ch 210.00 to 300.00 (1).	28 th day compressive strenath	246.91	Kg/Cm ²	210.00 Kg/cm ²	13.62	Qty represents -30.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
16	Cement concrete cube of mix 1:2:4, cast on 18/12/2021. For Ch 210.00 to 300.00 (1).	28 th day compressive strenath	240.12	Kg/Cm ²	210.00 Kg/cm ²	11.82	-do-
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	234.83	Kg/Cm²			
17	Cement concrete cube of mix 1:2:4, cast on 20/12/2021. For Ch 120.00 to 190.00 (2).	28 th day compressive strenath	219.73	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents -42.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4, cast on 20/12/2021. For Ch 120.00 to 190.00 (2).	28 th day compressive strenath	210.67	Kg/Cm ²	210.00 Kg/cm ²	6.07	-do-
			233.32	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
19	Cement concrete cube of mix 1:2:4, cast on 21/12/2021. For Ch 190.00 to 230.00 (2).	28 th day compressive strenath	253.71	Kg/Cm ²	210.00 Kg/cm ²	16.86	Qty represents -42.00 Cum for two sets of cubes.
			251.44	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	245.40	Kg/Cm²			
20	Cement concrete cube of mix 1:2:4, cast on 21/12/2021. For Ch 190.00 to 230.00 (2).	28 th day compressive strenath	203.87	Kg/Cm ²	210.00 Kg/cm ²	7.51	-do-
			237.85	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
21	Cement concrete cube of mix 1:2:4, cast on 22/12/2021. For Ch 230.00 to 270.00 (2).	28 th day compressive strenath	203.87	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents -42.00 Cum for two sets of cubes.
			222.00	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	221.24	Kg/Cm²			

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22	Cement concrete cube of mix 1:2:4, cast on 22/12/2021. For Ch 230.00 to 270.00 (2).	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents -42.00 Cum for two sets of cubes.
		compressive	212.93	Kg/Cm ²			
		strength	210.67	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
23	Cement concrete cube of mix 1:2:4, cast on 23/12/2021. For Ch 270.00 to 300.00 (2).	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents -30.00 Cum for two sets of cubes.
		compressive	203.87	Kg/Cm ²			
		strength	231.06	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4, cast on 23/12/2021. For Ch 270.00 to 300.00 (2).	28 th day	242.38	Kg/Cm ²	210.00 Kg/cm ²	13.26	-do-
		compressive	240.12	Kg/Cm ²			
		strength	231.06	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4, cast on 24/12/2021. For Ch 40.00 to 95.00 (3).	28 th day	249.18	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents -42.00 for two sets of cubes.
		compressive	244.65	Kg/Cm ²			
		strength	226.53	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4, cast on 24/12/2021. For Ch 40.00 to 95.00 (3).	28 th day	237.85	Kg/Cm ²	210.00 Kg/cm ²	13.98	-do-
		compressive	249.18	Kg/Cm ²			
		strength	231.06	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4, cast on 27/12/2021. For Ch 95.00 to 150.00 (3).	28 th day	260.51	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents -42.00 for two sets of cubes.
		compressive	233.32	Kg/Cm ²			
		strength	226.53	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
28	Cement concrete cube of mix 1:2:4, cast on 27/12/2021. For Ch 95.00 to 150.00 (3).	28 th day	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.95	-do-
		compressive	219.73	Kg/Cm ²			
		strength	235.59	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
29	Cement concrete cube of mix 1:2:4, cast on 28/12/2021. For Ch 150.00 to 210.00 (3).	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents -42.00 for two sets of cubes.
		compressive	212.93	Kg/Cm ²			
		strength	237.85	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
30	Cement concrete cube of mix 1:2:4, cast on 28/12/2021. For Ch 150.00 to 210.00 (3).	28 th day	235.59	Kg/Cm ²	210.00 Kg/cm ²	5.71	-do-
		compressive	219.73	Kg/Cm ²			
		strength	210.67	Kg/Cm ²			
		Average	222.00	Kg/Cm²			

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31	Cement concrete cube of mix 1:2:4, cast on 29/12/2021. For Ch 210.00 to 300.00 (3).	28 th day	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents -45.00 for two sets of cubes.
		compressive	203.87	Kg/Cm ²			
		strenath	237.85	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
32	Cement concrete cube of mix 1:2:4, cast on 29/12/2021. For Ch 210.00 to 300.00 (3).	28 th day	258.24	Kg/Cm ²	210.00 Kg/cm ²	16.14	-do-
		compressive	246.91	Kg/Cm ²			
		strenath	226.53	Kg/Cm ²			
		Average	243.89	Kg/Cm²			
33	Cement concrete cube of mix 1:2:4, cast on 30/12/2021. For Ch 0.00 to 60.00 (4).	28 th day	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents -22.00 for two sets of cubes.
		compressive	237.85	Kg/Cm ²			
		strenath	231.06	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
34	Cement concrete cube of mix 1:2:4, cast on 30/12/2021. For Ch 0.00 to 60.00 (4).	28 th day	235.59	Kg/Cm ²	210.00 Kg/cm ²	13.62	-do-
		compressive	253.71	Kg/Cm ²			
		strenath	226.53	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
35	Cement concrete cube of mix 1:2:4, cast on 31/12/2021. For Ch 0.00 to 120.00 (4).	28 th day	242.38	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents -22.00 for two sets of cubes.
		compressive	226.53	Kg/Cm ²			
		strenath	226.53	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
36	Cement concrete cube of mix 1:2:4, cast on 31/12/2021. For Ch 0.00 to 120.00 (4).	28 th day	233.32	Kg/Cm ²	210.00 Kg/cm ²	9.67	-do-
		compressive	240.12	Kg/Cm ²			
		strenath	217.47	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
37	Cement concrete cube of mix 1:2:4, cast on 01/01/2022. For Ch 120.00 to 175.00 (4).	28 th day	231.06	Kg/Cm ²	210.00 Kg/cm ²	12.90	Qty represents -20.00 for two sets of cubes.
		compressive	244.65	Kg/Cm ²			
		strenath	235.59	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
38	Cement concrete cube of mix 1:2:4, cast on 01/01/2022. For Ch 120.00 to 175.00 (4).	28 th day	255.97	Kg/Cm ²	210.00 Kg/cm ²	13.98	-do-
		compressive	224.26	Kg/Cm ²			
		strenath	237.85	Kg/Cm ²			
		Average	239.36	Kg/Cm²			

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39	Cement concrete cube of mix 1:2:4, cast on 02/01/2022. For Ch 0.00 to 100.00 (5).	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents -24.00 for two sets of cubes.
		compressive	240.12	Kg/Cm ²			
		strength	233.32	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
39	Cement concrete cube of mix 1:2:4, cast on 02/01/2022. For Ch 0.00 to 100.00 (5).	28 th day	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.79	-do-
		compressive	219.73	Kg/Cm ²			
		strength	237.85	Kg/Cm ²			
		Average	224.26	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD III , WDI, WRD, Pernem - 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.

Junior Engineer

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