

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3279,3286,3297,3313,3333,3355,/ Lab / **03** / 2022 - 23 Dated:- 01/04/2022. Laboratory : Bicholim - Goa.
3377,3388,3405,3406,3418,3419,3429,3436,3437,3450,3451,3464,3465,3476,3477,3486,3487,3499, Sub Division V (QC)/WRD/ Bicholim- Goa.
3500,3517,3518,3533 & 3534

Name of work : Improvement to Kodo Katar bund along the bank of Chapora river at Camurlim in Tivim Constituency.

Ref. to Requisition No. : S.D.II/W.D.I/WRD/F.24/2021-22/458 Dt.:- 26/ 02/ 2022

Qty. Recived. : 29 Sets of cube Date of Receipt:- 26/ 02 / 2022. Tested on: 28/02/2022 & 01,02,03,04,05,07,08,09,10,11,12,13,15,16,17,18,19,21 & 22/03/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1:2:4 O.S No. : 7765,7775,7786/SS , 148/R.K, 7804,7828,7851,7862,7881,7883,7896,7897,7907,7914,7915,7923,7924/SS , 169 & 170/R.K, 7937,7938,7946,7947,7960 & 7961/SS , 183,184,205 & 206/R.K. Lab. Sample No.: 3104 to 3132 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 31/01/2022. For foundation Ch 00 to 35.00M.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 19.25 Cum
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	224.26			
2	Cement concrete cube of mix 1:2:4, cast on 01/02/2022. For foundation Ch 35.00 to 70.00M.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 19.25 Cum
			217.47	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	222.75			
3	Cement concrete cube of mix 1:2:4, cast on 02/02/2022. For foundation Ch 70.00 to 105.00M.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 19.25 Cum
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	224.26			
4	Cement concrete cube of mix 1:2:4, cast on 03/02/2022. For 1st step Ch 00 to 35.00M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 18.90 Cum
			208.40	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	216.71			
5	Cement concrete cube of mix 1:2:4, cast on 04/02/2022. For 1st step Ch 35.00 to 70.00M.	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	1.40	Qty represents - 18.90 Cum
			217.47	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	212.93			
6	Cement concrete cube of mix 1:2:4, cast on 05/02/2022. For 2nd step Ch 00 to 50.00M.	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 18.00 Cum
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	219.73			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1:2:4, cast on 07/02/2022. For 1st step Ch 70.00 to 90.00M & 2nd step Ch 50.00 to 73.00 M.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 19.08 Cum
			228.79	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	229.55			
8	Cement concrete cube of mix 1:2:4, cast on 08/02/2022. For foundation Ch 105.00 to 140.00M.	28 th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 19.25 Cum
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	227.28			
9	Cement concrete cube of mix 1:2:4, cast on 09/02/2022. For 1st step Ch 90.00 to 112.50M.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 12.15 Cum
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	222.75			
10	Cement concrete cube of mix 1:2:4, cast on 10/02/2022. For 1st step Ch 112.00 to 132.50M & 2nd step Ch 73.00 to 93.00 M.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents - 18.00 Cum
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	234.83			
11	Cement concrete cube of mix 1:2:4, cast on 11/02/2022. For foundation Ch 140.00 to 170.00M.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	15.42	Qty represents - 16.50 Cum
			246.91	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	242.38			
12	Cement concrete cube of mix 1:2:4, cast on 11/02/2022. For foundation Ch 170.00 to 200.00M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 16.50 Cum
			212.93	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	215.95			
13	Cement concrete cube of mix 1:2:4, cast on 12/02/2022. For 2nd step Ch 93.00 to 132.50M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 14.22 Cum
			215.20	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	225.77			
14	Cement concrete cube of mix 1:2:4, cast on 13/02/2022. For foundation Ch 200.00 to 235.00M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 19.25 Cum
			219.73	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	219.73			
15	Cement concrete cube of mix 1:2:4, cast on 13/02/2022. For 1st step Ch 132.50 to 160.00M.	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 14.85 Cum
			222.00	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	222.00			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
16	Cement concrete cube of mix 1:2:4, cast on 15/02/2022. For foundation Ch 235.00 to 270.00M.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 19.25 Cum
			212.93	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	227.28			
17	Cement concrete cube of mix 1:2:4, cast on 15/02/2022. For 1st step Ch 160.00 to 187.50M.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	16.50	Qty represents - 14.85 Cum
			258.24	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	244.65			
18	Cement concrete cube of mix 1:2:4, cast on 16/02/2022. For foundation Ch 270.00 to 300.00M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 16.50 Cum
			231.06	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	223.51			
19	Cement concrete cube of mix 1:2:4, cast on 16/02/2022. For 2nd step Ch 132.50 to 175.00M.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 15.30 Cum
			215.20	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	228.79			
20	Cement concrete cube of mix 1:2:4, cast on 17/02/2022. For foundation Ch 300.00 to 335.00M.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents - 19.25 Cum
			226.53	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	231.06			
21	Cement concrete cube of mix 1:2:4, cast on 17/02/2022. For 1st step Ch 187.50 to 215.00M.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 14.85 Cum
			244.65	Kg/Cm ²			
			246.91	Kg/Cm ²			
			Average	243.14			
22	Cement concrete cube of mix 1:2:4, cast on 18/02/2022. For 2nd step Ch 175.00 to 215.00M.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	1.40	Qty represents - 14.40 Cum
			203.87	Kg/Cm ²			
			222.00	Kg/Cm ²			
			Average	212.93			
23	Cement concrete cube of mix 1:2:4, cast on 18/02/2022. For 1st step Ch 215.00 to 245.00M.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 16.20 Cum
			217.47	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	225.02			
24	Cement concrete cube of mix 1:2:4, cast on 19/02/2022. For foundation Ch 335.00 to 370.00M.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 19.25 Cum
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	228.04			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
25	Cement concrete cube of mix 1:2:4, cast on 19/02/2022. For 1st step Ch 245.00 to 275.00M.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 16.20 Cum
			219.73	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4, cast on 21/02/2022. For 2nd step Ch215.00 to 265.00M.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 18.00 Cum
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4, cast on 21/02/2022. For 1st step Ch 275.00 to 302.50M.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 14.85 Cum
			237.85	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
28	Cement concrete cube of mix 1:2:4, cast on 22/02/2022. For foundation Ch 370.00 to 400.00M.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	1.76	Qty represents - 16.50 Cum
			212.93	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	213.69	Kg/Cm²			
29	Cement concrete cube of mix 1:2:4, cast on 22/02/2022. For 1st step Ch 302.50 to 330.00M.	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents - 14.85 Cum
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	234.83	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD II , 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.

Junior Engineer

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