

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 1951,1952,1967,1968,1978,1979,1987,/ Lab / **84** / 2021 - 22 Dated:- 26 /05/ 2021. Laboratory : Bicholim - Goa.
1988,1994 ,1995,2019,2020,2025,2026,2045,2046,2052,2053 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of open type Bandhara across Bicholim River at Gaonkarwada at Bicholim.

Ref. to Requisition No.: WRD/WDVI/SDI/F.W.215/2021-22/39 Dated :- 28/ 04 / 2021.

Qty. Recived. :18 Sets of cube Date of Receipt:- 03/ 05 / 2021. Tested on: - 12,14,15,16,17,19,20,22,23/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1:2:4 O.S No. :6174,6175,6192,6193,6204,6205,6215,6216,6224,6225,6242,6243,6249,6250,6269,6270,6276,6277/SS

Lab. Sample No.: 1401 to 1418 Tested By: Mrs. 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 14/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents -47.00 Cum for two sets of cubes.
			203.87	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 14/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	215.20	Kg/Cm ²	210.00 Kg/cm ²	2.48	-----do-----
			212.93	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	215.20	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	215.20	Kg/Cm ²	210.00 Kg/cm ²	2.48	Qty represents -47.00 Cum for two sets of cubes.
			217.47	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	215.20	Kg/Cm²			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.27	-----do-----
			206.14	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 17/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	242.38	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents -47.00 Cum for two sets of cubes.
			208.40	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
6	Cement concrete cube of mix 1 : 2 : 4 , cast on 17/04/2021. PCC for Retaining wall Foundation.	28 th day compressive strenath	228.79	Kg/Cm ²	210.00 Kg/cm ²	7.87	-----do-----
			203.87	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	226.53	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
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 18/04/2021. PCC for 1 st Lift.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents -38.70 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 18/04/2021. PCC for 1 st Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.31	-----do----
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/04/2021. PCC for 1 st Lift.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents -38.70 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/04/2021. PCC for 1 st Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	2.84	-----do----
			217.47	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/04/2021. PCC for 1 st Lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	12.90	Qty represents -38.70 Cum for two sets of cubes.
			249.18	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	237.10	Ka/Cm²			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/04/2021. PCC for 1 st Lift.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.26	-----do----
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
13	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents -28.80 Cum for two sets of cubes.
			203.87	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
14	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/cm ²	9.67	-----do----
			222.00	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	230.30	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
15	Cement concrete cube of mix 1 : 2 : 4 , cast on 24/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents -28.80 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2 : 4 , cast on 24/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	11.47	-----do----
			222.00	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
17	Cement concrete cube of mix 1 : 2 : 4 , cast on 25/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents -28.80 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
18	Cement concrete cube of mix 1 : 2 : 4 , cast on 25/04/2021. PCC for 2 nd Lift.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	11.82	-----do----
			237.85	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	234.83	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD I , WD VI, WRD, Bicholim - 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 VI ,WRD,Bicholim - Goa.

4. QC Lab File. 5. Bill File.

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