

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3906,3910,3927,3940,3941,3954,3998,4006,/ Lab /72/ 2022 - 23 Dated:- 16/ 05 /2022.
4017,4023,4033,4049,4076,4077,4096,4114,4128,4137,4161,4186,4207,4229 & 4231

Laboratory : Bicholim - Goa.
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.220/2022-23/ Dt.:- 07/ 04/ 2022

Qty. Recived. : 23 Sets of cube Date of Receipt:- 07/04/ 2022. Tested on:-11,12,13,14,16,18,19,20,21,22,23,25,26,27,28,29 & 30/04/2022, 02,03 & 04/05/2022as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC **1:2:4** O.S No. :8131,8140,8162,8178,8179,8196,8243,8255,8268,8275,8288,8308,8338,8339,8359,8380,8396,8407,8434 & 8443/SS, 0495,0517, & 0519/R.K

Lab. Sample No.: 3772 to 3794 Tested By: Mrs. R.R.Kadam A.E. & Mrs. S.B. Naik Shirodkar. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
1	Cement concrete cube of mix 1 : 2: 4 , cast on 14/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	203.87	Ka/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 20.32 Cum.
			217.47	Ka/Cm ²			
			237.85	Kg/Cm ²			
			Average	219.73			
2	Cement concrete cube of mix 1 : 2: 4 , cast on 15/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	253.71	Ka/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 20.32 Cum.
			222.00	Ka/Cm ²			
			212.93	Kg/Cm ²			
			Average	229.55			
3	Cement concrete cube of mix 1 : 2: 4 , cast on 16/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	226.53	Ka/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 20.32 Cum.
			235.59	Ka/Cm ²			
			215.20	Kg/Cm ²			
			Average	225.77			
4	Cement concrete cube of mix 1 : 2: 4 , cast on 16/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	244.65	Ka/Cm ²	210.00 Kg/cm ²	11.47	Qty represents - 20.32 Cum.
			231.06	Ka/Cm ²			
			226.53	Kg/Cm ²			
			Average	234.08			
5	Cement concrete cube of mix 1 : 2: 4 , cast on 17/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	237.85	Ka/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 20.32 Cum.
			244.65	Ka/Cm ²			
			231.06	Kg/Cm ²			
			Average	237.85			

Junior Engineer

Assistant Engineer

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SR.N O.	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 19/03/2022. PCC for Ret Wall 1st lift.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 20.41 Cum.
			222.00	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
7	Cement concrete cube of mix 1 : 2: 4 , cast on 21/03/2022. PCC for Ret Wall 1st lift.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 20.41 Cum.
			215.20	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 22/03/2022. PCC for Ret Wall 1st lift.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 20.41 Cum.
			242.38	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 23/03/2022. PCC for Ret Wall 1st lift.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	13.62	Qty represents - 20.41 Cum.
			235.59	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 24/03/2022. PCC for Ret Wall 2nd lift.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 21.60 Cum.
			249.18	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 25/03/2022. PCC for Ret Wall 2nd lift.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 20.16 Cum.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 26/03/2022. PCC for Ret Wall 2nd lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 19.00 Cum.
			249.18	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	237.85	Kg/Cm²			

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SR.N O.	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 28/03/2022. PCC for Ret Wall 3rd lift.	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 17.44 Cum.
			233.32	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
14	Cement concrete cube of mix 1 : 2: 4 , cast on 28/03/2022. PCC for Ret Wall 3rd lift.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 17.44 Cum.
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
15	Cement concrete cube of mix 1 : 2: 4 , cast on 29/03/2022. PCC for Ret Wall 3rd lift.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 17.44 Cum.
			235.59	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2: 4 , cast on 30/03/2022. PCC for Ret Wall 4th lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.54	Qty represents - 13.05 Cum.
			237.85	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
17	Cement concrete cube of mix 1 : 2: 4 , cast on 31/03/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 20.17 Cum.
			217.47	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
18	Cement concrete cube of mix 1 : 2: 4 , cast on 01/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents - 20.17 Cum.
			244.65	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
19	Cement concrete cube of mix 1 : 2: 4 , cast on 02/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 20.17 Cum.
			233.32	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
20	Cement concrete cube of mix 1 : 2: 4 , cast on 04/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 20.17 Cum.
			235.59	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	237.85	Kg/Cm²			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
21	Cement concrete cube of mix 1 : 2: 4 , cast on 05/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	18.30	Qty represents - 20.17 Cum.
			255.97	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	248.42	Kg/Cm²			
22	Cement concrete cube of mix 1 : 2: 4 , cast on 06/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	16.86	Qty represents - 20.17 Cum.
			237.85	Kg/Cm ²			
			251.44	Kg/Cm ²			
		Average	245.40	Kg/Cm²			
23	Cement concrete cube of mix 1 : 2: 4 , cast on 06/04/2022. PCC for Ret Wall Foundation.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents - 20.17 Cum.
			237.85	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	235.59	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD I , WDV I , 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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