

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 4251 to 4253,4276 to 4278,4331 to 4333,/ Lab /69/ 2022 - 23 Dated:- 13/05/2022.
4373,4374,4423 to 4425

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.220/2022-23/18 Dt.:- 16/ 04/ 2022

Qty. Recived. : 14 Sets of cube Date of Receipt:- 16/04/ 2022. Tested on: -05,06,08,10 & 12/05/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC **1:2:4** & RCC **1:1.5:3** O.S No. :0539 to 0541,0564 to 0566,0620 to 0622,0662,0663,0712,0713 & 0714/R.K Lab. Sample No.: 3863 to 3876 Tested By: Mrs. R.R.Kadam A.E.

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SR.N O.	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 07/04/2022. PCC for Ret Wall 1st lift from 140-110m.	28 th day compressive strength	210.67	Ka/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 19.35 Cum.
			222.00	Ka/Cm ²			
			226.53	Kg/Cm ²			
		Average	219.73	Ka/Cm²			
2	Cement concrete cube of mix 1 : 2: 4 , cast on 07/04/2022. PCC for Ret Wall 1st lift from 140-110m.	28 th day compressive strength	217.47	Ka/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 19.35 Cum.
			228.79	Ka/Cm ²			
			222.00	Kg/Cm ²			
		Average	222.75	Ka/Cm²			
3	Cement concrete cube of mix 1 : 2: 4 , cast on 07/04/2022. PCC for Ret Wall 1st lift from 140-110m.	28 th day compressive strength	215.20	Ka/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 19.35 Cum.
			226.53	Ka/Cm ²			
			217.47	Kg/Cm ²			
		Average	219.73	Ka/Cm²			
4	Cement concrete cube of mix 1 : 2: 4 , cast on 08/04/2022. PCC for Ret Wall 1st lift from 110-80m.	28 th day compressive strength	224.26	Ka/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 19.35 Cum.
			235.59	Ka/Cm ²			
			226.53	Kg/Cm ²			
		Average	228.79	Ka/Cm²			
5	Cement concrete cube of mix 1 : 2: 4 , cast on 08/04/2022. PCC for Ret Wall 1st lift from 110-80m.	28 th day compressive strength	212.93	Ka/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 19.35 Cum.
			224.26	Ka/Cm ²			
			228.79	Kg/Cm ²			
		Average	222.00	Ka/Cm²			

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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 08/04/2022. PCC for Ret Wall 1st lift from 110-80m.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 19.54 Cum.
			215.20	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
7	Cement concrete cube of mix 1 : 2: 4 , cast on 10/04/2022. PCC for Ret Wall 2nd lift from 140-100m.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 20.73 Cum.
			228.79	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 10/04/2022. PCC for Ret Wall 2nd lift from 140-100m.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	20.45	Qty represents - 20.73 Cum.
			244.65	Kg/Cm ²			
			253.71	Kg/Cm ²			
		Average	252.95	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 10/04/2022. PCC for Ret Wall 2nd lift from 140-100m.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 20.73 Cum.
			231.06	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 12/04/2022. PCC for Ret Wall 3rd lift from 140-100m.	28 th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/cm ²	21.17	Qty represents - 20.40 Cum.
			253.71	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	254.46	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 12/04/2022. PCC for Ret Wall 3rd lift from 140-100m.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 20.40 Cum.
			237.85	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	243.14	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 14/04/2022. PCC for Ret Wall 4th lift from 140-100m.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	20.45	Qty represents - 19.43 Cum.
			253.71	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	252.95	Kg/Cm²			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
13	Cement concrete cube of mix 1 :1.5: 3 , cast on 14/04/2022. RCC for Piers.	28 th day	267.30	Kg/Cm ²	265.00 Kg/cm ²	1.72	Qty represents - 10.36 Cum.
		compressive	269.57	Kg/Cm ²			
		strength	271.83	Kg/Cm ²			
		Average	269.57	Kg/Cm²			
14	Cement concrete cube of mix 1 : 1.5: 3 , cast on 14/04/2022. RCC for Piers.	28 th day	283.16	Kg/Cm ²	265.00 Kg/cm ²	4.00	Qty represents - 15.54 Cum.
		compressive	274.10	Kg/Cm ²			
		strength	269.57	Kg/Cm ²			
		Average	275.61	Kg/Cm²			

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

Assistant Engineer