

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3499,3516,3521,3538,3554,3573,3606,3640,/ Lab /23/ 2022 - 23 Dated:- 11/ 04 /2022.
3662,3708,3732,3763,3798,3808,3809,3822,3845 & 3863

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.220/2021-22/537 Dt.:- 14/ 03/ 2022

Qty. Recived. : 18 Sets of cube Date of Receipt:- 14/03/ 2022. Tested on: -18,19,21,22,23,24,26,28,29,31/03/2022 & 01,02,04,05,06,07 & 08/04/2022 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. :7960 & 7977/SS, 187,210,231,252,291,327,349,395,419 & 450/R.K , 7992,8005,8006,8024,8053 & 8082/SS Lab. Sample No.: 3318 to 3335 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. Value permissible	% above or below	REMARK
1	Cement concrete cube of mix 1 : 2: 4 , cast on 18/02/2022. PCC for Pier Foundation.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 14.85 Cum.
			222.00	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
2	Cement concrete cube of mix 1 : 2: 4 , cast on 19/02/2022. PCC for Upstream Cutoff.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	15.42	Qty represents - 17.00 Cum.
			258.24	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	242.38	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2: 4 , cast on 21/02/2022. PCC for Upstream Apron.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.54	Qty represents - 22.95 Cum.
			249.18	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
4	Cement concrete cube of mix 1 : 2: 4 , cast on 22/02/2022. PCC for Upstream Apron.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 22.95 Cum.
			237.85	Kg/Cm ²			
			253.71	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
5	Cement concrete cube of mix 1 : 1.5: 3 , cast on 23/02/2022. PCC for Pier Beam.	28 th day compressive strength	274.10	Kg/Cm ²	265.00 Kg/cm ²	2.58	Qty represents - 13.38 Cum.
			274.10	Kg/Cm ²			
			267.30	Kg/Cm ²			
		Average	271.83	Kg/Cm²			

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 : 1.5: 3 , cast on 24/02/2022. PCC for Pier Beam.	28 th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/cm ²	11.13	Qty represents - 13.38 Cum.
			312.61	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	294.48	Kg/Cm²			
7	Cement concrete cube of mix 1 : 2: 4 , cast on 26/02/2022. PCC for Downstream Apron 1st block.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 18.90 Cum.
			208.40	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 28/02/2022. PCC for Downstream Apron 1st block.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 18.90 Cum.
			224.26	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 01/03/2022. PCC for Downstream Apron 1st block.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.47	Qty represents - 16.80 Cum.
			226.53	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 03/03/2022. PCC for Downstream Apron 2nd block.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 18.90 Cum.
			244.65	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 04/03/2022. PCC for Downstream Apron 2nd block.	28 th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/cm ²	16.14	Qty represents - 18.90 Cum.
			242.38	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	243.89	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 05/03/2022. PCC for Downstream Apron 3rd block and D/s Cut off.	28 th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/cm ²	21.17	Qty represents - 27.00 Cum.
			253.71	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	254.46	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 : 2: 4 , cast on 07/03/2022. PCC for Upstream and Downstream foundation Key Wall for rip rap.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	20.81	Qty represents - 11.55 Cum.
			253.71	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	253.71	Kg/Cm²			
14	Cement concrete cube of mix 1 : 2: 4 , cast on 08/03/2022. PCC for Upstream and Downstream Key Wall for rip rap.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	15.06	Qty represents - 16.50 Cum.
			235.59	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	241.63	Kg/Cm²			
15	Cement concrete cube of mix 1 : 1.5: 3 , cast on 08/03/2022. PCC for Abutment For Bandhara Foundation.	28 th day compressive strength	301.28	Kg/Cm ²	265.00 Kg/cm ²	10.27	Qty represents - 13.50 Cum.
			292.22	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	292.22	Kg/Cm²			
16	Cement concrete cube of mix 1 : 1.5: 3 , cast on 09/03/2022. PCC for Abutment For Bandhara 1st Lift.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	5.43	Qty represents - 11.61 Cum.
			269.57	Kg/Cm ²			
			296.75	Kg/Cm ²			
		Average	279.38	Kg/Cm²			
17	Cement concrete cube of mix 1 : 1.5: 3 , cast on 10/03/2022. PCC for Abutment For Bandhara 2nd Lift.	28 th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/cm ²	6.57	Qty represents - 8.64 Cum.
			283.16	Kg/Cm ²			
			299.01	Kg/Cm ²			
		Average	282.40	Kg/Cm²			
18	Cement concrete cube of mix 1 : 1.5: 3 , cast on 11/03/2022. PCC for Abutment For Bandhara 3rd Lift.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	5.14	Qty represents - 11.34 Cum.
			289.95	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	278.63	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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