

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 1059,1060,1094,1095,1110,1111,/ Lab / **293**/ 2020 - 21 Dated:- 15 /03/ 2021. Laboratory : Bicholim - Goa
1114 to 1117 ,1119 to 1122 ,1139,1140,1249,1250 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of Barrage and up gradation of Raw water pumping station at Ganjem on Mhadei River for Augmentation of Raw water for Opa water works. Part I- Construction of Barrage providing and laying 1000mm dia D.Ipipe Rising main and Break Pressure Tank at Ganjem in Sattari Taluka.

Ref. to Requisition No.:WRD/ SDI/WDVI/F.W.215/2020-21/516 Dated :- 09/ 02 / 2021.

Qty. Recived. :18 Sets of cube Date of Receipt:- 09/ 02 / 2021. Tested on: -19,22,24,25,26,27/02/21 & 02,09/03/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:1.5:3 & M 35 O.S No.5124,5125,5160,5161,5179,5180,5183 to 5186,5188 to 5191,5216,5217,5339,5340 /SS Lab. Sample No.: 397 to 414

Tested By: 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 :1.5 : 3 , cast on 22/01/2021. RCC For Pier P6-8.40m to 9.60m.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	10.27	Qty represents - 13.50 Cum.
			308.08	Kg/Cm ²			
			296.75	Kg/Cm ²			
			Average	292.22			
2	Cement concrete cube of mix 1 :1.5 : 3 , cast on 22/01/2021. RCC For Pier P6-8.40m to 9.60m.	28 th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/cm ²	6.85	Qty represents - 13.50 Cum.
			283.16	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	283.16			
3	Cement concrete cube of mix 1 :1.5 : 3 , cast on 25/01/2021. RCC For Pier P7-8.40m to 9.60m.	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	8.56	Qty represents - 13.50 Cum.
			296.75	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	287.69			
4	Cement concrete cube of mix 1 :1.5 : 3 , cast on 25/01/2021. RCC For Pier P7-8.40m to 9.60m.	28 th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/cm ²	7.99	Qty represents - 13.50 Cum.
			283.16	Kg/Cm ²			
			267.30	Kg/Cm ²			
			Average	286.18			
5	Cement concrete cube of mix 1 :1.5 : 3 , cast on 27/01/2021. RCC For Pier P6-9.60m to 10.80m.	28 th day compressive strength	303.55	Kg/Cm ²	265.00 Kg/cm ²	13.69	Qty represents - 13.50 Cum.
			296.75	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	301.28			
6	Cement concrete cube of mix 1 :1.5 : 3 , cast on 27/01/2021. RCC For Pier P6-9.60m to 10.80m.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	7.14	Qty represents - 13.50 Cum.
			265.04	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	283.91			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
7	Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2021. RCC For Pier P5-10.80m to 11.85m.	28 th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/cm ²	9.70	Qty represents - 13.50 Cum.
			305.81	Kg/Cm ²			
			276.36	Kg/Cm ²			
		Average	290.71	Kg/Cm²			
8	Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2021. RCC For Pier P5-10.80m to 11.85m.	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	4.86	Qty represents - 13.50 Cum.
			292.22	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	277.87	Kg/Cm²			
9	Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2021. RCC For Pier P9-4.80m to 6.00m.	28 th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/cm ²	6.57	Qty represents - 13.50 Cum.
			278.63	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	282.40	Kg/Cm²			
10	Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2021. RCC For Pier P9-4.80m to 6.00m.	28 th day compressive strength	287.69	Kg/Cm ²	265.00 Kg/cm ²	9.42	Qty represents - 13.50 Cum.
			299.01	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	289.95	Kg/Cm²			
11	Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2021. RCC For Pier P6-10.80m to 11.85m.	28 th day compressive strength	292.22	Kg/Cm ²	265.00 Kg/cm ²	10.84	Qty represents - 13.50 Cum.
			308.08	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	293.73	Kg/Cm²			
12	Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2021. RCC For Pier P6-10.80m to 11.85m.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	9.13	Qty represents - 13.50 Cum.
			292.22	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	289.20	Kg/Cm²			
13	Cement concrete cube of mix 1:1.5:3 , cast on 30/01/2021. RCC For Pier P7-9.60m to 10.80m.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	5.71	Qty represents - 13.50 Cum.
			283.16	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	280.14	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
14	Cement concrete cube of mix 1:1.5:3 , cast on 30/01/2021. RCC For Pier P7-9.60m to 10.80m.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	10.84	Qty represents - 13.50 Cum.
			294.48	Kg/Cm ²			
			303.55	Kg/Cm ²			
		Average	293.73	Kg/Cm²			
15	Cement concrete cube of mix M 35 , cast on 02/02/2021. RCC For 2 nd span of service bridge of barrage.	28 th day compressive strength	421.34	Kg/Cm ²	400.00 Kg/cm ²	2.69	Qty represents - 18.00 Cum.
			412.28	Kg/Cm ²			
			398.69	Kg/Cm ²			
		Average	410.77	Kg/Cm²			
16	Cement concrete cube of mix M 35 , cast on 02/02/2021. RCC For 2 nd span of service bridge of barrage.	28 th day compressive strength	405.48	Kg/Cm ²	400.00 Kg/cm ²	3.45	Qty represents - 18.00 Cum.
			407.75	Kg/Cm ²			
			428.13	Kg/Cm ²			
		Average	413.79	Kg/Cm²			
17	Cement concrete cube of mix M 35 , cast on 09/02/2021. RCC For 3 rd span of service bridge of barrage.	28 th day compressive strength	410.01	Kg/Cm ²	400.00 Kg/cm ²	3.26	Qty represents - 18.00 Cum.
			434.93	Kg/Cm ²			
			394.16	Kg/Cm ²			
		Average	413.03	Kg/Cm²			
18	Cement concrete cube of mix M 35 , cast on 09/02/2021. RCC For 3 rd span of service bridge of barrage.	28 th day compressive strength	403.22	Kg/Cm ²	400.00 Kg/cm ²	2.31	Qty represents - 18.00 Cum.
			398.69	Kg/Cm ²			
			425.87	Kg/Cm ²			
		Average	409.26	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.

Junior Engineer

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