

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/QC/F.6-2/Cube -T : 035 To 039, 052 To 054, 067 To 069 / Lab / **80** / 2020 - 21 Dated:- 29 / 06/ 2020

Laboratory : Bicholim -Goa / 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 1000 mm dia. D.I. pipe Rising main and Break Pressure Tank at Ganjem in Sattari Taluka.

Ref. to Requisition No.: WRD/WDVI/SD I /F.W.215/2020-21/ **108** Dated :- 18-06-2020

Qty. Recived. : 11 Sets of cube Date of Receipt: -18/06/2020. Tested on:- 18 TO 20/06/2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 3938,3939,3940,3953,3954,3967 & 3968/SS. Lab. Sample No.: 9239 To 9249. 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 21/05/2020. RCC for wall on RHS on U/s from 2.30m -3.5 m RL .	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	10.84	Represents Qty. 13.00 Cum.
			280.89	Kg/Cm ²			
			305.81	Kg/Cm ²			
			Average	293.73			
2	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for abutment on RHS from 3.60m -4.8 m	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	9.13	Represents Qty. 15.00 Cum.
			294.48	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	289.20			
3	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for abutment on RHS from 3.60m -4.8 m	28th day compressive strength	301.28	Kg/Cm ²	265.00 Kg/Cm ²	13.41	--- do ---
			308.08	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	300.52			
4	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for for wall on RHS on D/s from 1.80m -3.0 m.	28th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/Cm ²	8.28	Represents Qty. 13.50 Cum.
			271.83	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	286.93			
5	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for for wall on RHS on D/s from 1.80m -3.0 m.	28th day compressive strength	296.75	Kg/Cm ²	265.00 Kg/Cm ²	7.42	--- do ---
			285.42	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	284.67			
6	Cement concrete cube of mix 1:1.5:3 , cast on 22/05/2020. RCC for anchor block of rising main.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	6.57	Represents Qty. 20.00 Cum.
			271.83	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	282.40			

Junior Engineer

Assistant Engineer

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1:1.5:3 , cast on 22/05/2020. RCC for anchor block of rising main.	28th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/Cm ²	9.99	Represents Qty. 20.00 Cum.
			310.34	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	291.46	Kg/Cm²			
8		28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	11.13	Represents Qty. 17.00 Cum.
			296.75	Kg/Cm ²			
			303.55	Kg/Cm ²			
		Average	294.48	Kg/Cm²			
9	Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2020. RCC for wall on RHS on U/s from 3.50m -4.7 m RL.	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	9.13	Represents Qty. 13.00 Cum.
			305.81	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	289.20	Kg/Cm²			
10	Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2020. RCC for abutment on RHS on U/s from 4.80m -6.0 m.	28th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/Cm ²	7.42	Represents Qty. 15.00 Cum.
			283.16	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	284.67	Kg/Cm²			
11	Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2020. RCC for abutment on RHS on U/s from 4.80m -6.0 m.	28th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/Cm ²	13.98	--- do ---
			303.55	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	302.03	Kg/Cm²			

1. Copy to: 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 ,WDVI,WRD, Bicholim-Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer