

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 9952,9953,9970,9971,9983,9984,9993,9994,033,034,050,051,065,066,078 & 079 / Lab / 64 / 2020 - 21 Dated:- 22/06/2020

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 II : Upgradation of pump house including supply and installation of pumps, motors, control panel and substation, providing and laying 1000 mm dia. D.I. pipe gravity main.

Ref. to Requisition No.: WRD/WDVI/SD I /F.216/2020-21/ 92 Dated :- 08-06-2020

Ref. to Requisition No.: WRD/WDVI/SD I /F.216/2020-21/ 100 Dated :- 16-06-2020

Qty. Recived. : 08+08 Sets of cubes Date of Receipt: -11 & 18 /06/2020. Tested on:- 11 TO 21/06/2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 3872,3873,3889,3890,3898,3899,3906,3907,3936,3937,3951,3952,3965,3966,3977 & 3978/SS.

Lab. Sample No.: 9188 To 9995, 9231 To 9238 Tested By: - Mrs. S.B. Naik Shirodkar, J.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix 1:1.5:3 , cast on 14/05/2020. RCC for Thrust Block for T joint at ch. 2320 m.	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	6.85	Represents Qty. 8.65 Cum.
			276.36	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	283.16	Kg/Cm²			
2	Cement concrete cube of mix 1:1.5:3 , cast on 14/05/2020. RCC for Thrust Block for bend joint at ch. 2452 m.	28th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/Cm ²	4.57	Represents Qty. 9.30 Cum.
			271.83	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
3	Cement concrete cube of mix 1:1.5:3 , cast on 15/05/2020. RCC for Thrust Block for bend joint at ch. 2461 m.	28th day compressive strength	303.55	Kg/Cm ²	265.00 Kg/Cm ²	8.85	Represents Qty. 8.70 Cum.
			283.16	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	288.44	Kg/Cm²			
4	Cement concrete cube of mix 1:1.5:3 , cast on 15/05/2020. RCC for Thrust Block for bend joint at ch. 2586 m.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	11.98	Represents Qty. 8.65 Cum.
			310.34	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	296.75	Kg/Cm²			
5	Cement concrete cube of mix 1:1.5:3 , cast on 16/05/2020. RCC for Thrust Block for bend joint at ch. 2711 m.	28th day compressive strength	310.34	Kg/Cm ²	265.00 Kg/Cm ²	13.98	Represents Qty. 6.35 Cum.
			303.55	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	302.03	Kg/Cm²			
6	Cement concrete cube of mix 1:1.5:3 , cast on 16/05/2020. RCC for Thrust Block for bend joint at ch. 3321 m.	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	6.85	Represents Qty. 7.55 Cum.
			296.75	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	283.16	Kg/Cm²			

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 17/05/2020. RCC for Thrust Block for bend joint at ch. 3333 m.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	10.84	Represents Qty. 6.95 Cum.
			283.16	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	293.73			
8	Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2020. RCC for Thrust Block for bend joint at ch. 3417 m.	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	6.28	Represents Qty. 6.50 Cum.
			271.83	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	281.65			
9	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for Thrust Block for T joint at ch. 3467 m.	28th day compressive strength	292.22	Kg/Cm ²	265.00 Kg/Cm ²	8.56	Represents Qty. 6.95 Cum.
			276.36	Kg/Cm ²			
			294.48	Kg/Cm ²			
			Average	287.69			
10	Cement concrete cube of mix 1:1.5:3 , cast on 21/05/2020. RCC for Thrust Block for bend joint at ch. 4272 m.	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	7.99	Represents Qty. 5.15 Cum.
			305.81	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	286.18			
11	Cement concrete cube of mix 1:1.5:3 , cast on 22/05/2020. RCC for Thrust Block for bend joint at ch. 4337 m.	28th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/Cm ²	13.41	Represents Qty. 5.20 Cum.
			283.16	Kg/Cm ²			
			310.34	Kg/Cm ²			
			Average	300.52			
12	Cement concrete cube of mix 1:1.5:3 , cast on 22/05/2020. RCC for Thrust Block for bend joint at ch. 4408 m.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	6.57	Represents Qty. 4.30 Cum.
			280.89	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	282.40			
13	Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2020. RCC for Thrust Block for bend joint at ch. 4638 m.	28th day compressive strength	299.01	Kg/Cm ²	265.00 Kg/Cm ²	12.84	Represents Qty. 3.90 Cum.
			305.81	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	299.01			
14	Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2020. RCC for Thrust Block for bend joint at ch. 5260 m.	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	6.28	Represents Qty. 3.48 Cum.
			274.10	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	281.65			
15	Cement concrete cube of mix 1:1.5:3 , cast on 24/05/2020. RCC for Thrust Block for bend joint at ch. 5629 m.	28th day compressive strength	292.22	Kg/Cm ²	265.00 Kg/Cm ²	10.56	Represents Qty. 3.96 Cum.
			303.55	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	292.97			
16	Cement concrete cube of mix 1:1.5:3 , cast on 24/05/2020. RCC for Thrust Block for bend joint at ch. 5733 m.	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	6.00	Represents Qty. 4.30 Cum.
			280.89	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	280.89			

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, WDV I, WRD, Bicholim-Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer