

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 7612 To 7619,7626 To 7633 / Lab / **230**/ 2019 - 20 Dated:- 05 / 07 / 2019

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 Reg. 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.215/2019-20/ **249** Dated :- 01-07-2019

Qty. Recived. : 16 Sets of cube Date of Receipt: - 02/07/2019. Tested on: -03, 04/07/2019 Ref to CPWD :2002, Vol. I

Sample: PCC 1 : 1.5 : 3 Mix O.S No. : 992/AF To 999/AF, 1006/AF To 1013/AF. Lab. Sample No.: 6591 To 6606. Tested By: - Mr. Anil R. Fadte ,J.E.

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	2.29	Represents Qty. 20.00 Cum.
			262.77	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	271.08	Kg/Cm²			
2	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/Cm ²	1.72	-do-
			274.10	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	269.57	Kg/Cm²			
3	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/Cm ²	4.57	-do-
			287.69	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
4	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	296.75	Kg/Cm ²	265.00 Kg/Cm ²	4.86	-do-
			278.63	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	277.87	Kg/Cm²			
5	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/Cm ²	4.29	-do-
			262.77	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	276.36	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
6	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/Cm ²	5.14	Represents Qty. 20.00 Cum.
			280.89	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	278.63	Kg/Cm²			
7	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	292.22	Kg/Cm ²	265.00 Kg/Cm ²	4.57	-do-
			274.10	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
8	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 05/06/2019, RCC for crest of Barage between P3 &P5.	28th day compressive strength	267.30	Kg/Cm ²	265.00 Kg/Cm ²	5.43	-do-
			280.89	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	279.38	Kg/Cm²			
9	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	260.51	Kg/Cm ²	265.00 Kg/Cm ²	2.58	-do-
			271.83	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	271.83	Kg/Cm²			
10	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	299.01	Kg/Cm ²	265.00 Kg/Cm ²	8.28	-do-
			253.71	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	286.93	Kg/Cm²			
11	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/Cm ²	4.29	-do-
			278.63	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	276.36	Kg/Cm²			
12	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	339.79	Kg/Cm ²	265.00 Kg/Cm ²	14.55	-do-
			292.22	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	303.55	Kg/Cm²			
13	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/Cm ²	10.27	-do-
			292.22	Kg/Cm ²			
			314.87	Kg/Cm ²			
		Average	292.22	Kg/Cm²			

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value	% above or	REMARK
14	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	326.20	Kg/Cm ²	265.00 Kg/Cm ²	11.13	-do-
			267.30	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	294.48	Kg/Cm²			
15	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	287.69	Kg/Cm ²	265.00 Kg/Cm ²	11.41	-do-
			319.40	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	295.24	Kg/Cm²			
16	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 06/06/2019, RCC for crest of Barage between P5 &P7.	28th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/Cm ²	7.14	-do-
			303.55	Kg/Cm ²			
			269.57	Kg/Cm ²			
		Average	283.91	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