

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 7235 To 7248 / Lab / **190**/ 2019 - 20 Dated:- 17 / 06 / 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/ **203** Dated :- 14-06-2019

Qty. Recived. : 14 Sets of cube Date of Receipt: - 14/06/2019. Tested on: -14/06/2019 Ref to CPWD :2002, Vol. I

Sample: PCC 1 : 1.5 : 3 Mix O.S No. : 857/AF To 870/AF. Lab. Sample No.: 6130 To 6143. 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 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/Cm ²	21.10	Represents Qty. 20.00 Cum.
			323.93	Kg/Cm ²			
			330.73	Kg/Cm ²			
		Average	320.91	Kg/Cm²			
2	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	328.46	Kg/Cm ²	265.00 Kg/Cm ²	19.39	-do-
			308.08	Kg/Cm ²			
			312.61	Kg/Cm ²			
		Average	316.38	Kg/Cm²			
3	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	310.34	Kg/Cm ²	265.00 Kg/Cm ²	20.53	-do-
			326.20	Kg/Cm ²			
			321.67	Kg/Cm ²			
		Average	319.40	Kg/Cm²			
4	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	323.93	Kg/Cm ²	265.00 Kg/Cm ²	19.96	-do-
			303.55	Kg/Cm ²			
			326.20	Kg/Cm ²			
		Average	317.89	Kg/Cm²			
5	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	314.87	Kg/Cm ²	265.00 Kg/Cm ²	20.53	-do-
			312.61	Kg/Cm ²			
			330.73	Kg/Cm ²			
		Average	319.40	Kg/Cm²			
6	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	326.20	Kg/Cm ²	265.00 Kg/Cm ²	19.96	-do-
			319.40	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	317.89	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	317.14	Kg/Cm ²	265.00 Kg/Cm ²	20.24	Represents Qty. 20.00 Cum.
			328.46	Kg/Cm ²			
			310.34	Kg/Cm ²			
		Average	318.65	Kg/Cm ²			
8	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	330.73	Kg/Cm ²	265.00 Kg/Cm ²	21.95	-do-
			323.93	Kg/Cm ²			
			314.87	Kg/Cm ²			
		Average	323.18	Kg/Cm ²			
9	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	328.46	Kg/Cm ²	265.00 Kg/Cm ²	21.38	-do-
			310.34	Kg/Cm ²			
			326.20	Kg/Cm ²			
		Average	321.67	Kg/Cm ²			
10	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	326.20	Kg/Cm ²	265.00 Kg/Cm ²	21.38	-do-
			310.34	Kg/Cm ²			
			328.46	Kg/Cm ²			
		Average	321.67	Kg/Cm ²			
11	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	326.20	Kg/Cm ²	265.00 Kg/Cm ²	21.67	-do-
			328.46	Kg/Cm ²			
			312.61	Kg/Cm ²			
		Average	322.42	Kg/Cm ²			
12	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	301.28	Kg/Cm ²	265.00 Kg/Cm ²	19.96	-do-
			323.93	Kg/Cm ²			
			328.46	Kg/Cm ²			
		Average	317.89	Kg/Cm ²			
13	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	330.73	Kg/Cm ²	265.00 Kg/Cm ²	22.24	-do-
			326.20	Kg/Cm ²			
			314.87	Kg/Cm ²			
		Average	323.93	Kg/Cm ²			
14	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 17/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	323.93	Kg/Cm ²	265.00 Kg/Cm ²	20.81	-do-
			305.81	Kg/Cm ²			
			330.73	Kg/Cm ²			
		Average	320.16	Kg/Cm ²			

- 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