

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 7349 To 7358 / Lab / **207** / 2019 - 20 Dated:- 21 / 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/ **222** Dated :-20-06-2019

Qty. Recived. : 10 Sets of cube Date of Receipt: -20/06/2019. Tested on:- 20/06/2019 Ref to CPWD :2002, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 927 To 936/AF. Lab. Sample No.: 6284 To 6293. Tested By: - Mr. Anil R. Fadte,J.E.

**REPORT PAGE 01 OF 02**

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 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	314.87	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.14	Represents Qty. 20.00 Cum.
			265.04	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		Average	<b>283.91</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	321.67	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.99	-do-
			283.16	Kg/Cm <sup>2</sup>			
			269.57	Kg/Cm <sup>2</sup>			
		Average	<b>291.46</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	317.14	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	8.85	-do-
			289.95	Kg/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		Average	<b>288.44</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	299.01	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	12.84	-do-
			330.73	Kg/Cm <sup>2</sup>			
			267.30	Kg/Cm <sup>2</sup>			
		Average	<b>299.01</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	12.27	-do-
			294.48	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
		Average	<b>297.50</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	10.56	-do-
			328.46	Kg/Cm <sup>2</sup>			
			267.30	Kg/Cm <sup>2</sup>			
		Average	<b>292.97</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

**REPORT PAGE 02 OF 02**

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 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.13	Represents Qty. 20.00 Cum.
			317.14	Kg/Cm <sup>2</sup>			
			269.57	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>289.20</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	323.93	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	21.10	-do-
			310.34	Kg/Cm <sup>2</sup>			
			328.46	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>320.91</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	323.93	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	15.12	-do-
			283.16	Kg/Cm <sup>2</sup>			
			308.08	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>305.06</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 23/05/2019, RCC for floor of Barage from 55-88 m.	28th day compressive strength	317.14	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	15.12	-do-
			269.57	Kg/Cm <sup>2</sup>			
			328.46	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>305.06</b>	<b>Kg/Cm<sup>2</sup></b>			

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