

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 084 To 089 / Lab / **81** / 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/ **113**      Dated :- 19-06-2020

Qty. Recived. : 06 Sets of cube      Date of Receipt: -22/06/2020.      Tested on:- 22 /06/2020.      Ref to CPWD :2009, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix      O.S No. : 3983,3984,3985,3986 & 3987/SS.      Lab. Sample No.: 9258 To 9263.      Tested By: - Mrs. S.B. Naik Shirodkar, J.E.

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for wall on RHS on D/s from 3.00m -4.0 m.	28th day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	8.85	Represents Qty. 11.00 Cum.
			294.48	Kg/Cm <sup>2</sup>			
			289.95	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>288.44</b>			
2	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for wall on RHS on D/s from 3.00m -4.0 m.	28th day compressive strength	287.69	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.42	--- do ---
			301.28	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>289.95</b>			
3	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for haunch on U/s from 88m - 108 m	28th day compressive strength	276.36	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.14	Represents Qty. 12.50 Cum.
			283.16	Kg/Cm <sup>2</sup>			
			292.22	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>283.91</b>			
4	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for haunch on D/s from 77m - 108 m	28th day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.99	Represents Qty. 14.50 Cum.
			305.81	Kg/Cm <sup>2</sup>			
			287.69	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>291.46</b>			
5	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for haunch on D/s from 77m - 108 m	28th day compressive strength	285.42	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.71	--- do ---
			276.36	Kg/Cm <sup>2</sup>			
			294.48	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>285.42</b>			
6	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/05/2020. RCC for pipe casing on LHS.	28th day compressive strength	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	11.41	--- do ---
			308.08	Kg/Cm <sup>2</sup>			
			283.16	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>295.24</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