

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

Test Report No.: WRD/QC/F.6-2/Cube -T-7746,7747,7763,7764,7768,7769,7789 / Lab / **250** / 2019 - 20  
Laboratory : Bicholim -Goa

Dated:- 17 / 07 / 2019

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 III : Construction of Bank Protection wall for upstream of Barrage at Ganjem in Sattari taluka.**

Ref. to Requisition No.: MI/WRD / WD VI/SD II /F.62 /2019-20/ 146 Dated: -28-06-2019

Qty. Recived. : 07 Sets of cube Date of Receipt: - 11/07/2019. Tested on: -12/07/2019 To 16/07/2019 as per due dates. Ref to CPWD :2002, Vol. I

Sample: PCC 1 : 1.5 : 3 Mix O.S No. : 1050,1051/AF,2581,2582/SS,1052,1053/AF,2602/SS Lab. Sample No.: 6638 To 6644.

Tested By: Mr. Anil R. Fadte. JE. & 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	Plain Cement concrete cube of mix 1:1.5:3 , cast on 14/06/2019, for wall-III-wall-bed from Ch. 94 To 104.3 m.	28th day compressive strength	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	10.56	Represents Qty. 24.00 Cum.
			292.22	Kg/Cm <sup>2</sup>			
			303.55	Kg/Cm <sup>2</sup>			
		Average	<b>292.97</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Plain Cement concrete cube of mix 1:1.5:3 , cast on 14/06/2019, for wall-III-wall-bed from Ch. 94 To 104.3 m.	28th day compressive strength	303.55	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	6.85	Represents Qty. 27.00 Cum.
			267.30	Kg/Cm <sup>2</sup>			
			278.63	Kg/Cm <sup>2</sup>			
		Average	<b>283.16</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Plain Cement concrete cube of mix 1:1.5:3 , cast on 15/06/2019, for wall-III-wall-step-I, from Ch. 94 To 104.3 m.	28th day compressive strength	308.08	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	6.00	Represents Qty. 25.50 Cum.
			271.83	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		Average	<b>280.89</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Plain Cement concrete cube of mix 1:1.5:3 , cast on 15/06/2019, for wall-III-wall-step-I, from Ch. 94 To 104.3 m.	28th day compressive strength	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.13	Represents Qty. 21.00 Cum.
			292.22	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
		Average	<b>289.20</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Plain Cement concrete cube of mix 1:1.5:3 , cast on 17/06/2019, for wall-III-wall-step-II, from Ch. 0 To 104.3 m.	28th day compressive strength	296.75	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.99	Represents Qty. 11.00 Cum.
			283.16	Kg/Cm <sup>2</sup>			
			278.63	Kg/Cm <sup>2</sup>			
		Average	<b>286.18</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Plain Cement concrete cube of mix 1:1.5:3 , cast on 17/06/2019, for wall-III-wall-step-II, from Ch. 0 To 104.3 m.	28th day compressive strength	269.57	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	6.00	Represents Qty. 12.00 Cum.
			287.69	Kg/Cm <sup>2</sup>			
			285.42	Kg/Cm <sup>2</sup>			
		Average	<b>280.89</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Plain Cement concrete cube of mix 1:1.5:3 , cast on 18/06/2019, for wall-III-wall-step-III, from Ch. 0 To 104.3 m.	28th day compressive strength	303.55	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.14	Represents Qty. 6.50 Cum.
			285.42	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		Average	<b>283.91</b>	<b>Kg/Cm<sup>2</sup></b>			

1. Copy to: The Assistant Engineer SD II , WD VI , WRD , Valpoi-Sattari-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