

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 7169 To 7182 / Lab / **181** / 2019 - 20 Dated:- 12 / 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/WDV/SD I /F.W.215/2019-20/ **195** Dated :- 11-06-2019
Qty. Recived. : 14 Sets of cube Date of Receipt: - 11/06/2019. Tested on: -11/06/2019 Ref to CPWD :2002, Vol. I
Sample: PCC 1 : 2 : 4 Mix O.S No. : 813 To 826/AF. Lab. Sample No.: 6061 To 6074. Tested By: - Mr. Anil R. Fadte,J.E.

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value	% above or	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/Cm ²	23.33	Represents Qty. 20.00 Cum.
			262.77	Kg/Cm ²			
			255.97	Kg/Cm ²			
		Average	258.99	Kg/Cm²			
2	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/Cm ²	24.41	--- do---
			262.77	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	261.26	Kg/Cm²			
3	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/Cm ²	25.13	--- do---
			271.83	Kg/Cm ²			
			267.30	Kg/Cm ²			
		Average	262.77	Kg/Cm²			
4	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	274.10	Kg/Cm ²	210.00 Kg/Cm ²	28.36	--- do---
			265.04	Kg/Cm ²			
			269.57	Kg/Cm ²			
		Average	269.57	Kg/Cm²			
5	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/Cm ²	26.93	--- do---
			269.57	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	266.55	Kg/Cm²			
6	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	269.57	Kg/Cm ²	210.00 Kg/Cm ²	25.49	--- do---
			258.24	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	263.53	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	269.57	Kg/Cm ²	210.00 Kg/Cm ²	25.49	Represents Qty. 20.00 Cum.
			258.24	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	263.53	Kg/Cm²			
8	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/Cm ²	26.93	--- do---
			260.51	Kg/Cm ²			
			276.36	Kg/Cm ²			
		Average	266.55	Kg/Cm²			
9	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	255.97	Kg/Cm ²	210.00 Kg/Cm ²	23.69	--- do---
			267.30	Kg/Cm ²			
			255.97	Kg/Cm ²			
		Average	259.75	Kg/Cm²			
10	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/Cm ²	24.05	--- do---
			265.04	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	260.51	Kg/Cm²			
11	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/Cm ²	26.93	--- do---
			267.30	Kg/Cm ²			
			269.57	Kg/Cm ²			
		Average	266.55	Kg/Cm²			
12	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/Cm ²	23.33	--- do---
			260.51	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	258.99	Kg/Cm²			
13	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/Cm ²	25.85	--- do---
			269.57	Kg/Cm ²			
			260.51	Kg/Cm ²			
		Average	264.28	Kg/Cm²			
14	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 14 / 05 /2019, for plum concrete below barrage floor from Ch. 50 - 95 m.	28th day compressive strength	269.57	Kg/Cm ²	210.00 Kg/Cm ²	24.41	--- do---
			255.97	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	261.26	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