

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 7324 To 7337 / Lab / **206**/ 2019 - 20 Dated:- 20 / 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/ **214** Dated :- 19-06-2019

Qty. Recived. : 14 Sets of cube Date of Receipt: - 19/06/2019. Tested on: -19/06/2019 Ref to CPWD :2002, Vol. I

Sample: PCC 1 : 2 : 4 Mix O.S No. : 2275/SS To 2288/SS. Lab. Sample No.: 6262 To 6275. Tested By: - Mrs. S.B. Naik Shirodkar,J.E.

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/Cm ²	15.06	Represents Qty. 20.00 Cum.
			242.38	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	241.63	Kg/Cm²			
2	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	255.97	Kg/Cm ²	210.00 Kg/Cm ²	14.34	--- do---
			235.59	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
3	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/Cm ²	20.09	--- do---
			260.51	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	252.20	Kg/Cm²			
4	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/Cm ²	16.86	--- do---
			231.06	Kg/Cm ²			
			260.51	Kg/Cm ²			
		Average	245.40	Kg/Cm²			
5	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/Cm ²	14.34	--- do---
			260.51	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
6	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/Cm ²	17.94	--- do---
			255.97	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	247.67	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
7	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/Cm ²	16.50	Represents Qty. 20.00 Cum.
			258.24	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	244.65	Kg/Cm²			
8	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	267.30	Kg/Cm ²	210.00 Kg/Cm ²	19.38	--- do---
			253.71	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	250.69	Kg/Cm²			
9	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/Cm ²	16.14	--- do---
			226.53	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	243.89	Kg/Cm²			
10	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/Cm ²	18.30	--- do---
			260.51	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	248.42	Kg/Cm²			
11	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/Cm ²	17.22	--- do---
			253.71	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	246.16	Kg/Cm²			
12	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/Cm ²	17.58	--- do---
			233.32	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	246.91	Kg/Cm²			
13	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/Cm ²	18.30	--- do---
			244.65	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	248.42	Kg/Cm²			
14	Plain Cement concrete cube of mix 1 : 2 : 4, cast on 22 / 05 /2019, PCC for plum concrete below barrage floor from Ch. 95 - 113 m.	28th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/Cm ²	15.78	--- do---
			253.71	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	243.14	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