

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 8881 To 8884,8897 To 8900, 8909 To 8912,8927 To 8930 / Lab / **458** / 2019 - 20 Dated:- 29 / 02 / 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 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/ 709 Dated :-21-02-2020

Qty. Recived. : 16 Sets of cube Date of Receipt: -22/02/2020. Tested on:- 22/02/2020 to 26/02/2020 as per due dates Ref to CPWD :2009, Vol. I

Sample:RCC 1:1.5:3 Mix O.S No:1757 To 1760,1769 To 1772,1780 To 1783,1803 To 1806/AF. Lab. Sample No: 8027 To 8042 Tested By:Mr. Anil R. Fadte,J.E.

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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 25/01/2020, RCC for Crest of 3rd opening.	28th day	312.61	Kg/Cm ²	265.00 Kg/Cm ²	5.14	Represents Qty. 20.00 Cum.
		compressive	255.97	Kg/Cm ²			
		strength	267.30	Kg/Cm ²			
		Average	278.63	Kg/Cm²			
2	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 25/01/2020, RCC for Crest of 3rd opening.	28th day	274.10	Kg/Cm ²	265.00 Kg/Cm ²	5.43	-do-
		compressive	274.10	Kg/Cm ²			
		strength	289.95	Kg/Cm ²			
		Average	279.38	Kg/Cm²			
3	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 25/01/2020, RCC for Crest of 3rd opening.	28th day	271.83	Kg/Cm ²	265.00 Kg/Cm ²	1.44	-do-
		compressive	260.51	Kg/Cm ²			
		strength	274.10	Kg/Cm ²			
		Average	268.81	Kg/Cm²			
4	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 25/01/2020, RCC for Crest of 3rd opening.	28th day	265.04	Kg/Cm ²	265.00 Kg/Cm ²	2.01	-do-
		compressive	267.30	Kg/Cm ²			
		strength	278.63	Kg/Cm ²			
		Average	270.32	Kg/Cm²			
5	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/01/2020, RCC for abutment on LHS.	28th day	249.18	Kg/Cm ²	265.00 Kg/Cm ²	2.01	-do-
		compressive	246.91	Kg/Cm ²			
		strength	314.87	Kg/Cm ²			
		Average	270.32	Kg/Cm²			
6	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/01/2020, RCC for abutment on LHS.	28th day	262.77	Kg/Cm ²	265.00 Kg/Cm ²	2.86	-do-
		compressive	262.77	Kg/Cm ²			
		strength	292.22	Kg/Cm ²			
		Average	272.59	Kg/Cm²			
7	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/01/2020, RCC for retaining wall on LHS.	28th day	276.36	Kg/Cm ²	265.00 Kg/Cm ²	5.14	-do-
		compressive	296.75	Kg/Cm ²			
		strength	262.77	Kg/Cm ²			
		Average	278.63	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
8	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/01/2020, RCC for retaining wall on LHS.	28th day compressive strength	260.51	Kg/Cm ²	265.00 Kg/Cm ²	4.29	Represents Qty. 20.00 Cum.
			260.51	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	276.36	Kg/Cm²			
9	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2020, RCC for Crest of 1st opening.	28th day compressive strength	260.51	Kg/Cm ²	265.00 Kg/Cm ²	1.44	-do-
			271.83	Kg/Cm ²			
			274.10	Kg/Cm ²			
		Average	268.81	Kg/Cm²			
10	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2020, RCC for Crest of 1st opening.	28th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/Cm ²	2.58	-do-
			260.51	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	271.83	Kg/Cm²			
11	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2020, RCC for Crest of 1st opening.	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	4.29	-do-
			294.48	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	276.36	Kg/Cm²			
12	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 28/01/2020, RCC for Crest of 1st opening.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	2.29	-do-
			260.51	Kg/Cm ²			
			269.57	Kg/Cm ²			
		Average	271.08	Kg/Cm²			
13	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2020, RCC for Crest of 2nd opening.	28th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/Cm ²	1.15	-do-
			260.51	Kg/Cm ²			
			274.10	Kg/Cm ²			
		Average	268.06	Kg/Cm²			
14	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2020, RCC for Crest of 2nd opening.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	3.15	-do-
			271.83	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	273.34	Kg/Cm²			
15	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2020, RCC for Crest of 2nd opening.	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	4.57	-do-
			283.16	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
16	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 29/01/2020, RCC for Crest of 2nd opening.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	7.42	-do-
			292.22	Kg/Cm ²			
			267.30	Kg/Cm ²			
		Average	284.67	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