

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

Test Report No.: WRD/QC/F.6-2/Cube -T : 9779 To 9783, 9805 To 9809, 9820 To 9825 / Lab / **52** / 2020 - 21

Dated:- 16 / 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 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.215/2020-21/ **69** Dated :- 01-06-2020

Qty. Recived. : 16 Sets of cube Date of Receipt:- 01 /06/2020. Tested on:- 02 TO 04/06/2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 3759,3760,3761,3773,3774,3775,3782,3783 & 3784/SS. Lab. Sample No.: 9032 To 9047, Tested By: - 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	Cement concrete cube of mix 1:1.5:3 , cast on 05/05/2020. RCC for Floor of barrage from ch. 88 m - 113 m.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	8.28	Represents Qty. 20.00 Cum.
			276.36	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	286.93			
2	Cement concrete cube of mix 1:1.5:3 , cast on 05/05/2020. RCC for Floor of barrage from ch. 88 m - 113 m.	28th day compressive strength	292.22	Kg/Cm ²	265.00 Kg/Cm ²	12.27	--- do ---
			303.55	Kg/Cm ²			
			296.75	Kg/Cm ²			
			Average	297.50			
3	Cement concrete cube of mix 1:1.5:3 , cast on 05/05/2020. RCC for Floor of barrage from ch. 88 m - 113 m.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	7.42	--- do ---
			280.89	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	284.67			
4	Cement concrete cube of mix 1:1.5:3 , cast on 05/05/2020. RCC for Floor of barrage from ch. 88 m - 113 m.	28th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/Cm ²	13.98	--- do ---
			308.08	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	302.03			
5	Cement concrete cube of mix 1:1.5:3 , cast on 05/05/2020. RCC for Floor of barrage from ch. 88 m - 113 m.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	10.27	--- do ---
			292.22	Kg/Cm ²			
			301.28	Kg/Cm ²			
			Average	292.22			
6	Cement concrete cube of mix 1:1.5:3 , cast on 06/05/2020. RCC for crest of barrage from ch. 77 m - 87 m.	28th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/Cm ²	10.27	Represents Qty. 20.00 Cum.
			292.22	Kg/Cm ²			
			299.01	Kg/Cm ²			
			Average	292.22			

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	Cement concrete cube of mix 1:1.5:3 , cast on 06/05/2020. RCC for crest of barrage from ch. 77 m - 87 m.	28th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/Cm ²	6.00	Represents Qty. 20.00 Cum.
			271.83	Kg/Cm ²			
			294.48	Kg/Cm ²			
			Average	280.89			
8	Cement concrete cube of mix 1:1.5:3 , cast on 06/05/2020. RCC for crest of barrage from ch. 77 m - 87 m.	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	4.00	--- do ---
			265.04	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	275.61			
9	Cement concrete cube of mix 1:1.5:3 , cast on 06/05/2020. RCC for crest of barrage from ch. 77 m - 87 m.	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	9.99	--- do ---
			292.22	Kg/Cm ²			
			301.28	Kg/Cm ²			
			Average	291.46			
10	Cement concrete cube of mix 1:1.5:3 , cast on 06/05/2020. RCC for crest of barrage from ch. 77 m - 87 m.	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	7.42	--- do ---
			283.16	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	284.67			
11	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/Cm ²	8.56	Represents Qty. 20.00 Cum.
			280.89	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	287.69			
12	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	287.69	Kg/Cm ²	265.00 Kg/Cm ²	7.42	--- do ---
			276.36	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	284.67			
13	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	301.28	Kg/Cm ²	265.00 Kg/Cm ²	10.56	--- do ---
			283.16	Kg/Cm ²			
			294.48	Kg/Cm ²			
			Average	292.97			
14	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	3.43	--- do ---
			267.30	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	274.10			
15	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	7.14	--- do ---
			292.22	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	283.91			
16	Cement concrete cube of mix 1:1.5:3 , cast on 07/05/2020. RCC for crest of barrage from ch. 87 m - 97 m.	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	4.57	--- do ---
			265.04	Kg/Cm ²			
			294.48	Kg/Cm ²			
			Average	277.12			

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, WDWI, WRD, Bicholim-Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer