

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

Test Report No.: WRD/QC/F.6-2/Cube -T :500 to503, 513,543to546 / Lab /**200** / 2020 - 21 Dated:- 19 / 01/ 2021 Laboratory : Bicholim -Goa

578 to581 &592 to595

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 I - 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 No1.: WRD/WDVI/SD I /F.W.215/2020-21/417 Dated :- 02-01-2021

Qty. Recived. : 17 Sets of cube Date of Receipt: -02 /01/2021. Tested on:- 02/01/2021 to 09/01/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 4550 to 4553, 4567, 4588 to 4591, 4619 to4622 & 4633 to 4636/SS. Lab. Sample No.: 9972 To 9988

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	Cement concrete cube of mix 1:1.5:3 , cast on 05/12/2020. R.C.C.for side wall and key wall (1 st & 2 nd step) on LHS on U/s from 7.00m-8.40m RL.	28th day compressive strength	339.79	Kg/Cm ²	265.00 Kg/Cm ²	13.98	Represents Qty. 16.00 Cum.
			276.36	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	302.03			
2	Cement concrete cube of mix 1:1.5:3 , cast on 05/12/2020. R.C.C.for raft of key wall (3 rd & 4 th step) on LHS on U/s	28th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/Cm ²	4.29	Represents Qty. 11.00 Cum.
			265.04	Kg/Cm ²			
			292.22	Kg/Cm ²			
			Average	276.36			
3	Cement concrete cube of mix 1:1.5:3 , cast on 05/12/2020. R.C.C.for raft of central key wall on LHS.	28th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/Cm ²	8.85	Represents Qty. 14.00 Cum.
			296.75	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	288.44			
4	Cement concrete cube of mix 1:1.5:3 , cast on 05/12/2020. R.C.C.for anchor blocks of rising main	28th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/Cm ²	9.13	Represents Qty. 19.00 Cum.
			271.83	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	289.20			
5	Cement concrete cube of mix 1:1.5:3 , cast on 07/12/2020. R.C.C.for anchor blocks of rising main	28th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/Cm ²	6.85	Represents Qty. 19.00 Cum.
			299.01	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	283.16			
6	Cement concrete cube of mix 1:1.5:3 , cast on 09/12/2020. R.C.C.for key wall (3rd & 4 th step) on LHS on U/s up to R.L. 7.60m	28th day compressive strength	296.75	Kg/Cm ²	265.00 Kg/Cm ²	11.98	Represents Qty. 6.50 Cum.
			317.14	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	296.75			

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	Cement concrete cube of mix 1:1.5:3 , cast on 09/12/2020. R.C.C.for central key wall on LHS from R.L. 1.60m - 3.60m	28th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/Cm ²	8.28	Represents Qty. 17.00 Cum.
			303.55	Kg/Cm ²			
			262.77	Kg/Cm ²			
			Average	286.93			
8	Cement concrete cube of mix 1:1.5:3 , cast on 09/12/2020. R.C.C.for central key wall on LHS from R.L. 1.60m - 3.60m	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	4.86	Represents Qty. 17.00 Cum.
			287.69	Kg/Cm ²			
			262.77	Kg/Cm ²			
			Average	277.87			
9	Cement concrete cube of mix 1:1.5:3 , cast on 09/12/2020. R.C.C.for anchor blocks of rising main	28th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/Cm ²	8.56	Represents Qty. 19.00 Cum.
			308.08	Kg/Cm ²			
			249.18	Kg/Cm ²			
			Average	287.69			
10	Cement concrete cube of mix 1:1.5:3 , cast on 11/12/2020. R.C.C.for side wall and key wall (1 st & 2 nd step) on LHS on U/s from 8.40m-9.75m RL.	28th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/Cm ²	11.41	Represents Qty. 15.50 Cum.
			294.48	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	295.24			
11	Cement concrete cube of mix 1:1.5:3 , cast on 11/12/2020. R.C.C.for central key wall on LHS from R.L. 3.60m - 5.60m	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	9.70	Represents Qty. 17.00 Cum.
			285.42	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	290.71			
12	Cement concrete cube of mix 1:1.5:3 , cast on 11/12/2020. R.C.C.for central key wall on LHS from R.L. 3.60m - 5.60m	28th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/Cm ²	8.56	Represents Qty. 17.00 Cum.
			294.48	Kg/Cm ²			
			305.81	Kg/Cm ²			
			Average	287.69			
13	Cement concrete cube of mix 1:1.5:3 , cast on 11/12/2020. R.C.C.for thrust blocks of rising main	28th day compressive strength	310.34	Kg/Cm ²	265.00 Kg/Cm ²	4.57	Represents Qty. 14.00 Cum.
			244.65	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	277.12			
14	Cement concrete cube of mix 1:1.5:3 , cast on 12/12/2020. R.C.C.for key wall (3rd & 4 th step) on LHS on U/s from R.L. 7.60m - 9.75m	28th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/Cm ²	4.00	Represents Qty. 10.00 Cum.
			276.36	Kg/Cm ²			
			269.57	Kg/Cm ²			
			Average	275.61			
15	Cement concrete cube of mix 1:1.5:3 , cast on 12/12/2020. R.C.C.for central key wall on LHS from R.L. 5.60m - 7.60m	28th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/Cm ²	7.99	Represents Qty. 17.00 Cum.
			289.95	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	286.18			

Junior Engineer

Assistant Engineer

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
16	Cement concrete cube of mix 1:1.5:3 , cast on 12/12/2020. R.C.C.for central key wall on LHS from R.L. 5.60m - 7.60m	28th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/Cm ²	11.98	Represents Qty. 17.00 Cum.
			294.48	Kg/Cm ²			
			312.61	Kg/Cm ²			
		Average	296.75	Kg/Cm²			
17	Cement concrete cube of mix 1:1.5:3 , cast on 12/12/2020. R.C.C.for thrust blocks of rising main	28th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/Cm ²	10.56	Represents Qty. 14.00 Cum.
			280.89	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	292.97	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