## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T: 001 To 004, 009 To 012, 023 To 026 / Lab / **75** / 2020 - 21

Dated:- 26 / 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 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 No.: WRD/WDVI/SD I /F.W.215/2020-21/ **96** Dated :- 15-06-2020

Qty. Recived.: 12 Sets of cube Date of Receipt: -15/06/2020. Tested on:- 15 TO 17/06/2020 as per due dates. Ref to CPWD: 2009, Vol. I

Sample: RCC 1:1.5:3 Mix O.S No.: 3912,3913,3917,3918,3928 & 3929/SS. Lab. Sample No.: 9217 To 9228, Tested By: - Mrs. S.B. Naik Shirodkar, J.E.

## **REPORT PAGE 01 OF 02**

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 18/05/2020. RCC for wall on RHS on D/s up to 1.80m .	28th day	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.71	Represents Qty. 13.00 Cum.
		compressive	271.83	Kg/Cm <sup>2</sup>			
		strength	289.95	Kg/Cm <sup>2</sup>			
		Average	285.42	Kg/Cm <sup>2</sup>			
2	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 18/05/2020. RCC for wall on RHS on D/s up to 1.80m.	28th day	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	5.43	do
		compressive	287.69	Kg/Cm <sup>2</sup>			
		strength	267.30	Kg/Cm <sup>2</sup>			
		Average	279.38	Kg/Cm <sup>2</sup>			
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 18/05/2020. RCC for abutment on RHS from 2.4 m to 3.6 m.	28th day	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	6.57	Represents Qty. 15.00 Cum.
		compressive	285.42	Kg/Cm <sup>2</sup>			
		strength	278.63	Kg/Cm <sup>2</sup>			
		Average	282.40	Kg/Cm <sup>2</sup>			
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 18/05/2020. RCC for abutment on RHS from 2.4 m to 3.6 m.	28th day	271.83	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	6.00	do
		compressive	280.89	Kg/Cm <sup>2</sup>			
4		strength	289.95	Kg/Cm <sup>2</sup>			
		Average	280.89	Kg/Cm <sup>2</sup>			
5	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 19/05/2020. RCC for pier P6-3 <sup>rd</sup> Lift.	28th day	301.28	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	9.42	Represents Qty. 13.50 Cum.
		compressive	294.48	Kg/Cm <sup>2</sup>			
		strength	274.10	Kg/Cm <sup>2</sup>			
		Average	289.95	Kg/Cm <sup>2</sup>			
6	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 19/05/2020. RCC for pier P6-3 <sup>rd</sup> Lift.	28th day	303.55	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	8.85	do
		compressive	285.42	Kg/Cm <sup>2</sup>			
		strength	276.36	Kg/Cm <sup>2</sup>			
		Average	288.44	Kg/Cm <sup>2</sup>			

Junior Engineer

**Assistant Engineer** 

## **REPORT PAGE 02 OF 02**

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 19/05/2020. RCC for pier P7-3 <sup>rd</sup> Lift.	28th day	278.63	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.99	Represents Qty. 13.50 Cum.
		compressive	289.95	Kg/Cm <sup>2</sup>			
		strength	289.95	Kg/Cm <sup>2</sup>			
	·	Average	286.18	Kg/Cm <sup>2</sup>			
8		28th day	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	8.56	do
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on	compressive	285.42	Kg/Cm <sup>2</sup>			
	19/05/2020. RCC for pier P7-3 <sup>rd</sup> Lift.	strength	283.16	Kg/Cm <sup>2</sup>			
	,	Average	287.69	Kg/Cm <sup>2</sup>			
9		28th day	310.34	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	16.54	Represents Qty. 13.00 Cum.
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on	compressive	317.14	Kg/Cm <sup>2</sup>			
	20/05/2020. RCC for pier P8-3 <sup>rd</sup> Lift.	strength	299.01	Kg/Cm <sup>2</sup>			
	,	Average	308.83	Kg/Cm <sup>2</sup>			
10		28th day	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	12.55	Represents Qty. 13.50 Cum.
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on	compressive	296.75	Kg/Cm <sup>2</sup>			
	20/05/2020. RCC for pier P8-3 <sup>rd</sup> Lift.	strength	303.55	Kg/Cm <sup>2</sup>	203.00 kg/CIII	12.55	Represents Qty. 13.30 cum.
	·	Average	298.26	Kg/Cm <sup>2</sup>			
11		28th day	301.28	Kg/Cm <sup>2</sup>			
	Cement concrete cube of mix <b>1:1.5:3</b> , cast on	compressive	308.08	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	13.41	Represents Qty. 13.50 Cum.
	20/05/2020. RCC for pier P9-2 <sup>nd</sup> Lift.	strength	292.22	Kg/Cm <sup>2</sup>			
	·	Average	300.52	Kg/Cm <sup>2</sup>			
12	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 20/05/2020. RCC for pier P9-2 <sup>nd</sup> Lift.	28th day	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	10.84	do
		compressive	294.48	Kg/Cm <sup>2</sup>			
		strength	303.55	Kg/Cm <sup>2</sup>			
		Average	293.73	Kg/Cm <sup>2</sup>			

- 1.Copy to: The Assistant Engineer SDI, 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