## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 9056 To 9058,9073 To 9075,9095,9096,9111 To 9113,9129 & 9130 / Lab / **484** / 2019 - 20 Dated:- 11 / 03 / 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/ **747** Dated :-06-03-2020

Qty. Recived.: 13 Sets of cube Date of Receipt: -06/03/2020. Tested on:- 06/03/2020 To 11/03/2020 as per due dates. Ref to CPWD: 2009, Vol. I Sample: RCC 1:1.5:3 Mix O.S No.: 3384,3385,3386,3400,3418,3438 & 3450/SS. Lab. Sample No.: 8331 To 8343 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	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 07/02/2020, RCC for crest of 4 <sup>th</sup> opening.	28th day compressive strength Average	312.61 326.20 303.55 <b>314.12</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	18.53	1) Represents Qty. 20.00 Cum. 2) Cube test is wittnessed by Shri. Manjunath Dasmani., representative of PRN Infratech.
2	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 07/02/2020, RCC for crest of 4 <sup>th</sup> opening.	28th day compressive strength Average	321.67 335.26 317.14 <b>324.69</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	22.52	-do-
٧ .	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 07/02/2020, RCC for abutment on LHS	28th day compressive strength Average	271.83 310.34 292.22 <b>291.46</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	1 999 1	1) Represents Qty. 16.00 Cum. 2) Same as Sl.No.1.
4	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 08/02/2020, RCC for retaining wall on LHS.	28th day compressive strength Average	276.36 265.04 299.01 <b>280.14</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	5.71	Represents Qty. 16.00 Cum.
5	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 08/02/2020, RCC for retaining wall on LHS.	28th day compressive strength Average	317.14 289.95 283.16 <b>296.75</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	11.98	-do-
6	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 08/02/2020, RCC for retaining wall on LHS.	28th day compressive strength Average	305.81 285.42 267.30 <b>286.18</b>	Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup> Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.99	-do-

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 10/02/2020, RCC for crest of 5 <sup>th</sup> opening.	28th day	267.30	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	4.00	Represents Qty. 20.00 Cum.
		compressive	276.36	Kg/Cm <sup>2</sup>			
		strength	283.16	Kg/Cm <sup>2</sup>			
		Average	275.61	Kg/Cm <sup>2</sup>			
8	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 10/02/2020, RCC for crest of 5 <sup>th</sup> opening.	28th day	271.83	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	5.43	-do-
		compressive	287.69	Kg/Cm <sup>2</sup>			
		strength	278.63	Kg/Cm <sup>2</sup>			
		Average	279.38	Kg/Cm <sup>2</sup>			
	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 11/02/2020, RCC for crest of 6 <sup>th</sup> opening.	28th day	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	2.29	-do-
		compressive	267.30	Kg/Cm <sup>2</sup>			
		strength	265.04	Kg/Cm <sup>2</sup>			
		Average	271.08	Kg/Cm <sup>2</sup>			
	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 11/02/2020, RCC for crest of 6 <sup>th</sup> opening.	28th day	253.71	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	3.15	-do-
		compressive	289.95	Kg/Cm <sup>2</sup>			
		strength	276.36	Kg/Cm <sup>2</sup>			
		Average	273.34	Kg/Cm <sup>2</sup>			
	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 11/02/2020, RCC for retaining wall on LHS.	28th day	303.55	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	10.27	Represents Qty. 16.00 Cum.
		compressive	294.48	Kg/Cm <sup>2</sup>			
		strength	278.63	Kg/Cm <sup>2</sup>			
		Average	292.22	Kg/Cm <sup>2</sup>			
	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 12/02/2020, RCC for retaining wall on LHS.	28th day	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	4.57	-do-
		compressive	269.57	Kg/Cm <sup>2</sup>			
12		strength	278.63	Kg/Cm <sup>2</sup>			
		Average	277.12	Kg/Cm <sup>2</sup>			
13	Reinforced Cement concrete cube of mix <b>1:1.5:3</b> , cast on 12/02/2020, RCC for retaining wall on LHS.	28th day	292.22	Kg/Cm <sup>2</sup>	265.00 Kg/Cm <sup>2</sup>	7.99	-do-
		compressive	294.48	Kg/Cm <sup>2</sup>			
		strength	271.83	Kg/Cm <sup>2</sup>			
		Average	286.18	Kg/Cm <sup>2</sup>			

<sup>1.</sup>Copy to: The Assistant Engineer SD I, WD VI, WRD, Bicholim Goa.

<sup>2.</sup> Copy submitted to:The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa. For kind Information.

<sup>3.</sup> Copy submitted to:The Executive Engineer ,WDVI,WRD, Bicholim-Goa.

<sup>4.</sup> QC Lab File. 5. Bill File.