## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 7289 To 7302 / Lab / **205** / 2019 - 20 Dated: - 20 / 06 / 2019

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/ 211 Dated :- 17-06-2019

Qty. Recived.: 14 Sets of cube Date of Receipt: - 17/06/2019. Tested on: -17/06/2019 Ref to CPWD: 2002, Vol. I

Sample: PCC 1:2:4 Mix O.S No.: 904/AF To 917/AF. Lab. Sample No.: 6248 To 6261. 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 <del>below</del>	REMARK					
1	Plain Cement concrete cube of mix	28th day	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	19.02	Represents Qty. 20.00 Cum.					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	237.85	Kg/Cm <sup>2</sup>								
	plum concrete below barrage floor from	strength	249.18	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	249.93	Kg/Cm <sup>2</sup>								
2	Plain Cement concrete cube of mix	28th day	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	22.61	do					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	267.30	Kg/Cm <sup>2</sup>								
	plum concrete below barrage floor from	strength	255.97	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	257.48	Kg/Cm <sup>2</sup>								
3	Plain Cement concrete cube of mix	28th day	265.04	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	22.25	do					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	246.91	Kg/Cm <sup>2</sup>								
,	plum concrete below barrage floor from	strength	258.24	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	256.73	Kg/Cm <sup>2</sup>								
4	Plain Cement concrete cube of mix	28th day	242.38	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	21.53	do					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	262.77	Kg/Cm <sup>2</sup>								
	plum concrete below barrage floor from	strength	260.51	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	255.22	Kg/Cm <sup>2</sup>								
5	Plain Cement concrete cube of mix	28th day	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	22.25	do					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	249.18	Kg/Cm <sup>2</sup>								
	plum concrete below barrage floor from	strength	260.51	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	256.73	Kg/Cm <sup>2</sup>								
6	Plain Cement concrete cube of mix	28th day	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	21.17	do					
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	246.91	Kg/Cm <sup>2</sup>								
	plum concrete below barrage floor from	strength	253.71	Kg/Cm <sup>2</sup>								
	Ch. 95 - 113 m.	Average	254.46	Kg/Cm <sup>2</sup>								

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR RESULTS		Max./Min.Value	% above or	REMARK	
	Plain Cement concrete cube of mix	20+b dov		. 2	permissable	<del>below</del>	
7		28th day	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	22.61	Represents Qty. 20.00 Cum.
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	260.51	Kg/Cm <sup>2</sup>			
	plum concrete below barrage floor from	strength	262.77	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m. Plain Cement concrete cube of mix	Average 28th day	257.48	Kg/Cm <sup>2</sup>			
8		•	265.04	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	22.97	do
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	251.44	Kg/Cm <sup>2</sup>			
	plum concrete below barrage floor from	strength	258.24	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m. Plain Cement concrete cube of mix	Average	258.24	Kg/Cm <sup>2</sup>			
9		28th day	255.97	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	23.33	do
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	265.04	Kg/Cm <sup>2</sup>			
	plum concrete below barrage floor from	strength	255.97	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	258.99	Kg/Cm <sup>2</sup>			
	Plain Cement concrete cube of mix	28th day	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>		do
10	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	217.47	Kg/Cm <sup>2</sup>		11.47	
	plum concrete below barrage floor from	strength	249.18	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	234.08	Kg/Cm <sup>2</sup>			
	Plain Cement concrete cube of mix	28th day	255.97	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	17.94	do
11	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	251.44	Kg/Cm <sup>2</sup>			
11	plum concrete below barrage floor from	strength	235.59	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	247.67	Kg/Cm <sup>2</sup>			
12	Plain Cement concrete cube of mix	28th day	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	21.17	do
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	262.77	Kg/Cm <sup>2</sup>			
	plum concrete below barrage floor from	strength	260.51	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	254.46	Kg/Cm <sup>2</sup>			
	Plain Cement concrete cube of mix	28th day	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	21.53	do
13	1 : 2 : 4, cast on 20 / 05 /2019, PCC for	compressive	262.77	Kg/Cm <sup>2</sup>			
13	plum concrete below barrage floor from	strength	244.65	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	255.22	Kg/Cm <sup>2</sup>			
14	Plain Cement concrete cube of mix	28th day	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	21.17	do
	1:2:4, cast on 20 / 05 /2019, PCC for	compressive	255.97	Kg/Cm <sup>2</sup>			
	plum concrete below barrage floor from	strength	260.51	Kg/Cm <sup>2</sup>			
	Ch. 95 - 113 m.	Average	254.46	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.