GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 9625 To 9636 / Lab / **33** / 2020 - 21 Dated: - 28 / 05 / 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/ 57 Dated :- 23-05-2020

Qty. Recived. : 12 Sets of cubeDate of Receipt: -23 /05/2020.Tested on: - 25/05/2020.Ref to CPWD :2009, Vol. ISample: RCC 1 : 1.5 : 3 MixO.S No. : 3687 & 3688/SS. Lab. Sample No.: 8908 To 8919 Tested By: -Mrs. S.B. Naik Shirodkar, J.E.

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day	283.16	Kg/Cm ²	265.00 Kg/Cm ²	9.42	Represents Qty. 15.00 Cum.
		compressive	294.48	Kg/Cm ²			
		strength	292.22	Kg/Cm ²			
		Average	289.95	Kg/Cm ²			
	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day	271.83	Kg/Cm ²	265.00 Kg/Cm ²	7.42	do
2		compressive	280.89	Kg/Cm ²			
2		strength	301.28	Kg/Cm ²			
		Average	284.67	Kg/Cm ²			
	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day	305.81	Kg/Cm ²	265.00 Kg/Cm ²	11.70	do
3		compressive	292.22	Kg/Cm ²			
5		strength	289.95	Kg/Cm ²			
		Average	295.99	Kg/Cm ²			
4	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day	294.48	Kg/Cm ²	265.00 Kg/Cm ²	8.56	do
		compressive	283.16	Kg/Cm ²			
		strength	285.42	Kg/Cm ²			
		Average	287.69	Kg/Cm ²			
	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day	283.16	Kg/Cm ²	265.00 Kg/Cm ²	9.42	do
5		compressive	296.75	Kg/Cm ²			
		strength	289.95	Kg/Cm ²			
		Average	289.95	Kg/Cm ²			

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	301.28 305.81 289.95 299.01	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	12.84	Represents Qty. 15.00 Cum.
7	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	289.95 280.89 265.04 278.63	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	5.14	do
8	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	280.89 283.16 287.69 283.91	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	7.14	do
9	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	285.42 271.83 276.36 277.87	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	4.86	do
10	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	280.89 292.22 283.16 285.42	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	7.71	do
11	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	271.83 294.48 280.89 282.40	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	6.57	do
12	Reinforced Cement concrete cube of mix 1:1.5:3 , cast on 27/04/2020. for floor of barrage from ch. 88 m - 113 m.	28th day compressive strength Average	283.16 289.95 292.22 288.44	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/Cm ²	8.85	do

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.