

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

Test Report No.: WRD/QC/F.6-2/Cube -T -7867,7868,7871,7872,7879,7880,7884,7885,7895,7896,7897,7898,7899,7900 /Lab/**268** / 2019 -20 Dated:- 16 / 08 / 2019

Laboratory : Bicholim -Goa / Sub Division V (QC)/WRD/ Bicholim -Goa.

Name of Work: - Supplying Raw water to the Proposed 30MLD water treatment plant at Tuem for P.W.D. and to irrigate 165.00 Ha. Of Command in Pernem, Tuem, Korgao and Palyem village by pumping water from chainage 22.00 kms of R.B.M.C. of TIP at Dhargal in Pernem Taluka. **Part I Construction of intake chamber, pump house, Manifold suction/delivery line pump accessories Transformer and Sub Station and Rising main.**

Ref. to Requisition No.: - SDI/WDVII/WRD /F.351/2019-20/ 88 Dated :31-07-2019

Qty. Recived. : 14 Sets of cube Date of Receipt: - 03 / 08 / 2019. Tested on: -03/08/2019 To 15/08/2019 as per due dates. Ref to CPWD :2002, Vol. I

Sample: RCC 1 : 1.5 : 3 Mix O.S No. : 2670,2671,2674,2675/SS, 1065,1066/AF, 2685,2686/SS,1071,1072/AF,2692,2693,/SS,621,622/SP.

Lab. Sample No.: 6715 To 6728. Tested By: -Mrs. S. B. Naik Shirodkar. J.E., Mr.Anil R. Fadte,J.E. & S.M.Patri. A.E.

Cube test is witnessed by Mr. R. Tirupathi., Representative of M/s South East Constructions Company on 03/08/2019.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 06/ 07 / 2019, for 45,22.5 degree bend thrust block at Ch.2565,2534 m.	28th day compressive strength	253.71	Kg/Cm ³	265.00 Kg/Cm ²	4.00	Quantity Represents 30.00 m3 for two sets of cubes caste on 06/07/2019
			289.95	Kg/Cm ³			
			283.16	Kg/Cm ²			
		Average	275.61	Kg/Cm²			
2	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 06/ 07 / 2019, for 45,22.5 degree bend thrust block at Ch.2565,2534 m.	28 th day compressive strength	274.10	Kg/Cm ²	265.00 Kg/Cm ²	13.98	... Do
			292.22	Kg/Cm ²			
			339.79	Kg/Cm ²			
		Average	302.03	Kg/Cm²			
3	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 08/ 07 / 2019, for 45, 22.5 degree bend thrust block at Ch.2537,1655 m.	28th day compressive strength	267.30	Kg/Cm ³	265.00 Kg/Cm ²	3.43	Quantity Represents 30.00 m3 for two sets of cubes caste on 08/07/2019
			271.83	Kg/Cm ³			
			283.16	Kg/Cm ²			
		Average	274.10	Kg/Cm²			
4	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 08/ 07 / 2019, for 45, 22.5 degree bend thrust block at Ch.2537,1655 m.	28 th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/Cm ²	6.57	... Do
			280.89	Kg/Cm ²			
			301.28	Kg/Cm ²			
		Average	282.40	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
5	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 12/ 07 / 2019, for 45 and 22.5 degree bend at Ch.2516 and 1280 m.	28th day compressive strength	262.77	Kg/Cm ³	265.00 Kg/Cm ²	2.29	Quantity Represents 30.00 m3 for two sets of cubes caste on 12/07/2019
			278.63	Kg/Cm ³			
			271.83	Kg/Cm ²			
		Average	271.08	Kg/Cm²			
6	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 12/ 07 / 2019, for 45 and 22.5 degree bend at Ch.2516 and 1280 m.	28 th day compressive strength	287.69	Kg/Cm ²	265.00 Kg/Cm ²	4.29	... Do
			280.89	Kg/Cm ²			
			260.51	Kg/Cm ²			
		Average	276.36	Kg/Cm²			
7	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 13/ 07 / 2019, for 22.5,45 degree bend thrust block at Ch.2316,810 m.	28th day compressive strength	283.16	Kg/Cm ³	265.00 Kg/Cm ²	4.86	Quantity Represents 30.00 m3 for two sets of cubes caste on 13/07/2019
			269.57	Kg/Cm ³			
			280.89	Kg/Cm ²			
		Average	277.87	Kg/Cm²			
8	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 13/ 07 / 2019, for 22.5,45 degree bend thrust block at Ch.2316,810 m.	28 th day compressive strength	253.71	Kg/Cm ²	265.00 Kg/Cm ²	7.42	... Do
			292.22	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	284.67	Kg/Cm²			
9	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 16/ 07 / 2019, for 22.5,45 degree bend thrust block at Ch.1890,270 m.	28th day compressive strength	269.57	Kg/Cm ³	265.00 Kg/Cm ²	4.57	Quantity Represents 30.00 m3 for two sets of cubes caste on 16/07/2019
			274.10	Kg/Cm ³			
			287.69	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
10	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 16/ 07 / 2019, for 22.5,45 degree bend thrust block at Ch.1890,270 m.	28 th day compressive strength	267.30	Kg/Cm ²	265.00 Kg/Cm ²	3.72	... Do
			274.10	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	274.85	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
11	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17/ 07 / 2019, for 11.25,45 degree bend thrust block at Ch.1038,1008 m.	28th day compressive strength	265.04	Kg/Cm ³	265.00 Kg/Cm ²	4.57	Quantity Represents 26.00 m3 for two sets of cubes caste on 17/07/2019
			278.63	Kg/Cm ³			
			287.69	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
12	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17/ 07 / 2019, for 11.25,45 degree bend thrust block at Ch.1038,1008 m.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/Cm ²	8.85	... Do
			305.81	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	288.44	Kg/Cm²			
13	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 18/ 07 / 2019, for 45 degree bend thrust block and anchor blocks for pump house at Ch.778 m.	28th day compressive strength	260.51	Kg/Cm ³	265.00 Kg/Cm ²	2.01	Quantity Represents 28.00 m3 for two sets of cubes caste on 18/07/2019
			271.83	Kg/Cm ³			
			278.63	Kg/Cm ²			
		Average	270.32	Kg/Cm²			
14	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 18/ 07 / 2019, for 45 degree bend thrust block and anchor blocks for pump house at Ch.778 m.	28 th day compressive strength	296.75	Kg/Cm ²	265.00 Kg/Cm ²	6.00	... Do
			278.63	Kg/Cm ²			
			267.30	Kg/Cm ²			
		Average	280.89	Kg/Cm²			

Copy to: 1. The Assistant Engineer SD I , WD VII , WRD , Dhargal -Pernem- Goa.

2. Copy submitted to the Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa. For kind Information.

3. Copy submitted to the Executive Engineer ,WDVII,WRD , Dhargal - Pernem- Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer