

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 836,851,852,856,857,858/ Lab / **241** / 2020 - 21 Dated:- 15 /02/ 2021. Laboratory : Bicholim - Goa  
Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work :Supplying Raw water to the proposed 30 MLD water treatment plant at Tuem for PWD and to Irrigate 165.00Ha of Command Area in Pernem, Tuem, Korgao and Palyem villages by pumping water from Ch 22.00kms of RBMC Of TIP at Dhargal in Pernem Taluka." Part I Construction of intake chamber, pump house, manifold suction/delivery line pump accessories,electrical accessories Transformer and Sub station and Rising Main.**

Ref. to Requisition No.: F.351/SDI/WDVII/WRD/2020-21/221 Dated :- 29/ 01 / 2021.

Qty. Received. :6 Sets of cube Date of Receipt:- 30/ 1/ 2021. Tested on:-30/01/2021 & 1, 2/02/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 & 1 : 1.5 : 3 O.S No. : 4860,4878,4879,4883,4884,4885/SS Lab. Sample No.: 293 To 298 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 02/01/2021. P.C.C. For Thrust and anchor blocks ch 210 to 250,1350m .	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.30	Qty represents - 15.00 Cum for one sets of cubes.
			258.24	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>248.42</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 04/01/2021. R.C.C.For Thrust and anchor blocks ch 210 to 250,1350m.	28 <sup>th</sup> day compressive strength	296.75	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	8.85	Qty represents - 20.00 Cum for two sets of cubes.
			292.22	Kg/Cm <sup>2</sup>			
			276.36	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>288.44</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 04/01/2021. R.C.C.For Thrust and anchor blocks ch 210 to 250,1350m.	28 <sup>th</sup> day compressive strength	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	3.72	---- do ----
			260.51	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>274.85</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 05/01/2021. R.C.C. For Thrust and anchor blocks ch 210 to 250,1350m.	28 <sup>th</sup> day compressive strength	287.69	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.57	Qty represents - 20.00 Cum for three sets of cubes.
			276.36	Kg/Cm <sup>2</sup>			
			267.30	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>277.12</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 05/01/2021. R.C.C. For Thrust and anchor blocks ch 210 to 250,1350m.	28 <sup>th</sup> day compressive strength	258.24	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.29	---- do ----
			271.83	Kg/Cm <sup>2</sup>			
			283.16	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>271.08</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 05/01/2021. R.C.C. For Thrust and anchor blocks ch 210 to 250,1350m.	28 <sup>th</sup> day compressive strength	276.36	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.00	---- do ----
			289.95	Kg/Cm <sup>2</sup>			
			260.51	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>275.61</b>	<b>Kg/Cm<sup>2</sup></b>			

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 , WD VII ,WRD, Dhargal - Pernem - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer