

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 982,996,1056,1057,1074,1075,1090/ Lab /271 / 2020 - 21 Dated:- 27/02 / 2021. Laboratory : Bicholim - Goa.  
.1091,1112,1113 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work:-Construction of pump house, rising main and allied structures for pumping water from ch 7.190 km to ch 8.002 km and Gravity Main from ch 8.002 km to 8.780 km of B6 distributory of RBMC of TIP at Ugvem in Pernem Taluka.**

Ref. to Requisition No.: SDII/ WD.VII/ W.R.D./F.18/2020-21/ 137 Dated :- 29/ 01 / 2021.

Qty. Received. :10 Sets of cube Date of Receipt:- 30/01/ 2021. Tested on: -13,15,19,20,22 & 24/02/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 :2 :4 & 1:1.5:3 O.S No.:5032,5050,5121,5122,5140,5141,5156,5157,5181,5182/SS. Lab.Sample No.: 293 To 308

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	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 16/01/2021.PCC For Anchor and thrust block and chamber from ch 7.190 to 8.002.	28 <sup>th</sup> day compressive strength	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 15.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 18/01/2021. PCC For Anchor and thrust block and chamber from ch 8.002 to 8.78.	28 <sup>th</sup> day compressive strength	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.42	Qty represents - 15.00 Cum.
			242.38	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>242.38</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 22/01/2021. RCC For Anchor and thrust block and chamber from ch 7.190 to 7.430.	28 <sup>th</sup> day compressive strength	271.83	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	3.15	Qty represents - 30.00 Cum for two sets of cubes.
			285.42	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>273.34</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 22/01/2021. RCC For Anchor and thrust block and chamber from ch 7.190 to 7.430.	28 <sup>th</sup> day compressive strength	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	7.42	----- do -----
			294.48	Kg/Cm <sup>2</sup>			
			276.36	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>284.67</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 23/01/2021. RCC For Anchor and thrust block and chamber from ch 7.430 to 7.700.	28 <sup>th</sup> day compressive strength	265.04	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	6.85	Qty represents -30.00 Cum for two sets of cubes.
			276.36	Kg/Cm <sup>2</sup>			
			308.08	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>283.16</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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<b>SR. NO.</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
6	Cement concrete cube of mix <b>1 :1.5 : 3</b> , cast on 23/01/2021. RCC For Anchor and thrust block and chamber from ch 7.430 to 7.700.	28 <sup>th</sup> day compressive strength	269.57	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	9.42	Qty represents - 30.00 Cum for two sets of cubes.
			294.48	Kg/Cm <sup>2</sup>			
			305.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>289.95</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1 :1.5 : 3</b> , cast on 25/01/2021. RCC For Anchor and thrust block and chamber from ch 7.700 to 8.000.	28 <sup>th</sup> day compressive strength	289.95	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	9.70	Qty represents - 30.00 Cum for two sets of cubes.
			310.34	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>290.71</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1 :1.5 : 3</b> , cast on 25/01/2021. RCC For Anchor and thrust block and chamber from ch 7.700 to 8.000.	28 <sup>th</sup> day compressive strength	276.36	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	3.72	----- do -----
			265.04	Kg/Cm <sup>2</sup>			
			283.16	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>274.85</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1 :1.5 : 3</b> , cast on 27/01/2021. RCC For Anchor and thrust block and chamber from ch 8.000 to 8.210.	28 <sup>th</sup> day compressive strength	283.16	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	10.84	Qty represents - 30.00 Cum for two sets of cubes.
			305.81	Kg/Cm <sup>2</sup>			
			292.22	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>293.73</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1 :1.5 : 3</b> , cast on 27/01/2021. RCC For Anchor and thrust block and chamber from ch 8.000 to 8.210.	28 <sup>th</sup> day compressive strength	262.77	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.86	----- do -----
			271.83	Kg/Cm <sup>2</sup>			
			283.16	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>272.59</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SDII , 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