

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 622,639,641,642,643,644,645,646,647 / Lab / **216** / 2020- 21 Dated:- 30/ 01 / 2021. Laboratory : Bicholim - Goa.  
Sub Division V (QC)/WRD/ Bicholim-Goa.

**Name of work :Supplying Raw Water to Mopa Airport by pumping water from ch17.300km of R.B.M.C of T.I.P at Nagzer village in Pernem Taluka.**

Ref. to Requisition No.:SDII/WDVII/WRD/F.23/2020-21/123 Dated :- 05/ 01 / 2021.

Qty. Recived. : 09 Sets of cube Date of Receipt:- 11/ 01 / 2021. Tested on: -11/01/2021 to 13/01/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 & 1:1.5:3 O.S No. :4655,4670,4673,4674,4675,4676,4677,4678,4679/SS Lab. Sample No.: 62 to 70 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 14/12/2020. P.C.C. for BPT, chamber at ch.25.00m (RM), ch3.180km	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 12.00 Cum.
			208.40	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>224.26</b>			
2	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 15/12/2020. P.C.C. for drain along the road.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 15.00 Cum.
			237.85	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>228.04</b>			
3	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 16/12/2020. P.C.C. for raft near building.	28 <sup>th</sup> day compressive strength	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	Qty represents - 12.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>234.83</b>			
4	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 14/12/2020. R.C.C. for precast slab for chambers and drain.	28 <sup>th</sup> day compressive strength	267.30	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.86	Qty represents - 30.00 Cum. For two sets of cubes.
			294.48	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>277.87</b>			
5	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 14/12/2020. R.C.C. for precast slab for chambers and drain.	28 <sup>th</sup> day compressive strength	289.95	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	6.57	----- do -----
			303.55	Kg/Cm <sup>2</sup>			
			253.71	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>282.40</b>			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
6	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 15/12/2020. R.C.C. for raft and wall of chamber.	28 <sup>th</sup> day compressive strength	274.10	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	7.14	Qty represents - 15.00 Cum. For two sets of cubes.
			305.81	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>283.91</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 15/12/2020. R.C.C. for raft and wall of chamber.	28 <sup>th</sup> day compressive strength	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	11.70	----- do -----
			317.14	Kg/Cm <sup>2</sup>			
			276.36	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>295.99</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 16/12/2020. R.C.C. for Thrust block and drain.	28 <sup>th</sup> day compressive strength	308.08	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	6.57	Qty represents - 30.00 Cum. For two sets of cubes.
			258.24	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>282.40</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1 : 1.5 : 3</b> , cast on 16/12/2020. R.C.C. for Thrust block and drain.	28 <sup>th</sup> day compressive strength	308.08	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	8.56	----- do -----
			267.30	Kg/Cm <sup>2</sup>			
			287.69	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>287.69</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD II , 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, Dharagal - Pernem - Goa.

4. QC Lab File.      5. Bill File.

Junior Engineer

Assistant Engineer