

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 2843,2844,2845,2846,2854,2856 & 2885/ Lab / 247 / 2021 - 22 Dated:- 05 / 01 / 2022. Laboratory : Bicholim - Goa.  
Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work** :Construction of Anjuna Distributory taking off at Ch.28.970km of the Left Bank Main Canal of Tillari Irrigation Project in Siolim & Anjuna Village of Bardez Taluka.  
**Part - III** : Construction of Rising main from Ch.4.50Kms to Ch.7.290 Kms, Break Pressure tank (BPT), Gravity main from Ch.0.00 Kms to Ch.1.00 Kms and reinstatement of allied structures of Anjuna Distributory in Siolim and Assagao Village of Bardez Taluka.

Ref. to Requisition No.: SDIII/WDVIII/WRD/W.F.32(PART-III)/2021-22/231 Dated :- 06/ 12/ 2021.

Qty. Received. :07 Sets of cube Date of Receipt:- 07/12/ 2021. Tested on: -09,10,11,13 & 27/12/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:1.5:3 & 1:2:4 O.S No. : 7174,7175,7176, 7177, 7185,7187 & 7241/SS. Lab. Sample No.: 2465 To 2471 Tested By: Mrs. S.B. Naik Shirodkar J.E.

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SR N	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
1	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 11/11/2021 for 45deg Thrust bl. at Ch. 6.10 km	28th day compressive strength	269.57	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	3.15	Qty. represents -24.00 Cum for two sets of cubes.
			276.36	Kg/Cm <sup>2</sup>			
			274.10	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>273.34</b>			
2	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 11/11/2021 for 45deg Thrust bl. at Ch. 6.10 km	28th day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.58	-do-
			255.97	Kg/Cm <sup>2</sup>			
			278.63	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>271.83</b>			
3	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 12/11/2021 for 45deg Thrust bl. at Ch. 6.10 km & 11.25 deg Thrust bl. at ch. 7.29 kms	28th day compressive strength	287.69	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	6.28	Qty. represents -24.00 Cum for two sets of cubes.
			276.36	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>281.65</b>			
4	Cement concrete cube of mix <b>1 :1.5 :3</b> , cast on 12/11/2021 for 45deg Thrust bl. at Ch. 6.10 km & 11.25 deg Thrust bl. at ch. 7.29 kms	28th day compressive strength	285.42	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	3.43	-do-
			265.04	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>274.10</b>			
5	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 13/11/2021 for Pressure Rel. Valve at ch. 7.29 kms.	28th day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty. represents -3.20 Cum
			219.73	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			

Junior Engineer

Assistant Engineer

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<b>SR .N</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min. Value permissible</b>	<b>% above or below</b>	<b>REMARK</b>
6	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 15/11/2021 for Air Valve chamber at ch. 7.29 kms	28th day	219.73	<b>Kg/Cm<sup>2</sup></b>	210.00 Kg/cm <sup>2</sup>	7.51	Qty. represents - 4.00 Cum
		compressive	231.06	<b>Kg/Cm<sup>2</sup></b>			
		strength	226.53	<b>Kg/Cm<sup>2</sup></b>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 29/11/2021 for Air Valve chamber at ch. 6.10 kms	28th day	199.34	<b>Kg/Cm<sup>2</sup></b>	210.00 Kg/cm <sup>2</sup>	3.20	Qty. represents -11.36 Cum
		compressive	224.26	<b>Kg/Cm<sup>2</sup></b>			
		strength	226.53	<b>Kg/Cm<sup>2</sup></b>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD III , WD VIII, Karaswada-Bardez - 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 VIII, WRD, Karaswada-Bardez - Goa.

4. QC Lab File.      5. Bill File.

Junior Engineer

Assistant Engineer