

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 623,624,629,630,651,652,653,654,671/ Lab / **224** / 2020 - 21 Dated:- 02/02/2021. Laboratory : Bicholim - Goa
672,684,685,691,692,693,694,704,705,706,707 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of 10cm thick PCC lining for canal from ch.15.000 km to ch.18.000km of LBMC of TIP in Tivim and Sircaim villages of Bardez Taluka.

Ref. to Requisition No.:S.D.II/W.D.VIII/W.R.D./F.154/2020-21/162 Dated :- 29/ 12 / 2020.

Qty. Recived. :20 Sets of cube Date of Receipt:- 29/ 12 / 2020. Tested on: -11,12,13,14,15,16,17/01/2021as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No. : 4656,4664,4681,4682,4699,4712,4718,4719,4730,4731/SS Lab. Sample No.: 9875 to 9894 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 1 : 2 : 4 , cast on 14/12/2020. For lining Ch.16.05km to Ch.16.10km	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 60.00 Cum for 2 sets of cubes cast on 14/12/2020.
			222.00	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 14/12/2020. For lining Ch.16.05km to Ch.16.10km	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			217.47	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/12/2020. For lining Ch.16.10km to Ch.16.15km	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 60.00 Cum for 2 sets of cubes cast on 15/12/2020.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/12/2020. For lining Ch.16.10km to Ch.16.15km	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	5.35	----- do -----
			206.14	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/12/2020. For lining Ch.16.15km to Ch.16.25km	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents - 120.00 Cum for 4 sets of cubes.
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
6	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/12/2020. For lining Ch.16.15km to Ch.16.25km	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.95	----- do -----
			231.06	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	228.79	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/12/2020. For lining Ch.16.15km to Ch.16.25km	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 120.00 Cum for 4 sets of cubes.
			219.73	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/12/2020. For lining Ch.16.15km to Ch.16.25km	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			226.53	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 17/12/2020. For lining Ch.16.25km to Ch.16.30km	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 60.00 Cum for 2 sets of cubes.
			253.71	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	243.14	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 17/12/2020. For lining Ch.16.25km to Ch.16.30km	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.90	----- do -----
			237.85	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 18/12/2020. For lining Ch.16.30km to Ch.16.35km	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	13.26	----- do -----
			231.06	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 18/12/2020. For lining Ch.16.30km to Ch.16.35km	28 th day compressive strength	255.97	Kg/Cm ²	210.00 Kg/cm ²	15.42	----- do -----
			244.65	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	242.38	Kg/Cm²			
13	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/12/2020. For lining Ch.16.35km to Ch.16.45km	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	18.30	Qty represents - 120.00 Cum for 4 sets of cubes.
			237.85	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	248.42	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
14	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/12/2020. For lining Ch.16.35km to Ch.16.45km	28 th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/cm ²	13.62	Qty represents - 120.00 Cum for 4 sets of cubes.
			240.12	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
15	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/12/2020. For lining Ch.16.35km to Ch.16.45km	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	15.06	----- do -----
			255.97	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	241.63	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/12/2020. For lining Ch.16.35km to Ch.16.45km	28 th day compressive strength	265.04	Kg/Cm ²	210.00 Kg/cm ²	12.90	----- do -----
			215.20	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
17	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2020.For lining Ch.16.45km to Ch.16.530km	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 100.00 Cum for 4 sets of cubes.
			203.87	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
18	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2020. For lining Ch.16.45km to Ch.16.530km	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			258.24	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
19	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2020. For lining Ch.16.45km to Ch.16.530km	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	7.87	----- do -----
			217.47	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
20	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2020. For lining Ch.16.45km to Ch.16.530km	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.51	----- do -----
			206.14	Kg/Cm ²			
			253.71	Kg/Cm ²			
		Average	225.77	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD II , WD VIII, WRD, Tivim-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