

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T:986 to 991,1010 to 1013,1025 to 1028, / Lab / **270**/ 2020 - 21 Dated:- 27 / 02 / 2021. Laboratory : Bicholim - Goa.

1045 to 1048,1061 to 1064,1077 to 1080

Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work :Construction of Pilgao-Narve Distributory of LBMC of TIP from ch.4.825km to ch.8670m at village Pilgao and Narve in Bicholim Taluka.(Modified Balance Work).

Ref. to Requisition No.:SDII/WDVIII/WRD/F.160/2020-21/191 Dated :- 12/ 02 / 2021.

Qty. Recived. :26 Sets of cube Date of Receipt:- 12/ 02 / 2021. Tested on: -14,16 to 20/02/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. : 5036 to 5041,5067 to 5070,5084 to 5087,5107 to 5110,5126 to 5129,5143 to 5146/SS Lab. Sample No.: 438 To 463

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 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 116.00 Cum for 6 sets of cubes
			253.71	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	243.14			
2	Cement concrete cube of mix 1 :2: 4 , cast on 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	16.50	----- do -----
			249.18	Kg/Cm ²			
			246.91	Kg/Cm ²			
			Average	244.65			
3	Cement concrete cube of mix 1 :2: 4 , cast on 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	14.70	----- do -----
			260.51	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	240.87			
4	Cement concrete cube of mix 1 :2: 4 , cast on 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	15.42	----- do -----
			262.77	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	242.38			
5	Cement concrete cube of mix 1 :2: 4 , cast on 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.75	----- do -----
			233.32	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	232.57			
6	Cement concrete cube of mix 1 :2: 4 , cast on 17/01/2021. For Ch 6.791km to 6.978km.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	13.98	----- do -----
			237.85	Kg/Cm ²			
			253.71	Kg/Cm ²			
			Average	239.36			

Junior Engineer

Assistant Engineer

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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 19/01/2021. For Ch 6.798km to 7.103km.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 76.00 Cum for 4 sets of cubes
			226.53	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
8	Cement concrete cube of mix 1 :2: 4 , cast on 19/01/2021. For Ch 6.798km to 7.103km.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	8.95	----- do -----
			233.32	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
9	Cement concrete cube of mix 1 :2: 4 , cast on 19/01/2021. For Ch 6.798km to 7.103km.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	6.79	----- do -----
			249.18	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
10	Cement concrete cube of mix 1 :2: 4 , cast on 19/01/2021. For Ch 6.798km to 7.103km.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			215.20	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
11	Cement concrete cube of mix 1 :2: 4 , cast on 20/01/2021. For Ch 7.103km to 7.228km.	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents - 72.00 Cum for 4 sets of cubes
			237.85	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	235.59	Kg/Cm²			
12	Cement concrete cube of mix 1 :2: 4 , cast on 20/01/2021. For Ch 7.103km to 7.228km.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.90	----- do -----
			253.71	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
13	Cement concrete cube of mix 1 :2: 4 , cast on 20/01/2021. For Ch 7.103km to 7.228km.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	9.31	----- do -----
			242.38	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
14	Cement concrete cube of mix 1 :2: 4 , cast on 20/01/2021. For Ch 7.103km to 7.228km.	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			231.06	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	227.28	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
15	Cement concrete cube of mix 1 :2: 4 , cast on 21/01/2021. For Ch 7.228km to 7.353km.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 78.00 Cum for 4 sets of cubes
			242.38	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
16	Cement concrete cube of mix 1 :2: 4 , cast on 21/01/2021. For Ch 7.228km to 7.353km.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	10.39	----- do -----
			249.18	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
17	Cement concrete cube of mix 1 :2: 4 , cast on 21/01/2021. For Ch 7.228km to 7.353km.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	11.82	----- do -----
			246.91	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	234.83	Kg/Cm²			
18	Cement concrete cube of mix 1 :2: 4 , cast on 21/01/2021. For Ch 7.228km to 7.353km.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	12.18	----- do -----
			226.53	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	235.59	Kg/Cm²			
19	Cement concrete cube of mix 1 :2: 4 , cast on 22/01/2021. For Ch 7.353km to 7.478km.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 75.00 Cum for 4 sets of cubes
			235.59	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
20	Cement concrete cube of mix 1 :2: 4 , cast on 22/01/2021. For Ch 7.353km to 7.478km.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	19.38	----- do -----
			258.24	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	250.69	Kg/Cm²			
21	Cement concrete cube of mix 1 :2: 4 , cast on 22/01/2021. For Ch 7.353km to 7.478km.	28 th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/cm ²	14.34	----- do -----
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	240.12	Kg/Cm²			
22	Cement concrete cube of mix 1 :2: 4 , cast on 22/01/2021. For Ch 7.353km to 7.478km.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	15.78	----- do -----
			237.85	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	243.14	Kg/Cm²			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
23	Cement concrete cube of mix 1 :2: 4 , cast on 23/01/2021. For Ch 7.478km to 7.603km.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	19.38	Qty represents - 80.00 Cum for 4 sets of cubes
			246.91	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	250.69	Kg/Cm²			
24	Cement concrete cube of mix 1 :2: 4 , cast on 23/01/2021. For Ch 7.478km to 7.603km.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.47	----- do -----
			249.18	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
25	Cement concrete cube of mix 1 :2: 4 , cast on 23/01/2021. For Ch 7.478km to 7.603km.	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			233.32	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
26	Cement concrete cube of mix 1 :2: 4 , cast on 23/01/2021. For Ch 7.478km to 7.603km.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.47	----- do -----
			217.47	Kg/Cm ²			
			251.44	Kg/Cm ²			
		Average	234.08	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

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