

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T-8375,8376,8388,8389,8404,8405,8420,8421,8464,8465,8477,8478/Lab/386/2019-20

Dt :- 14 / 01 / 2020

Laboratory : Bicholim - Goa.

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

**Name of work :- Improvement to the R.B.M.C. of T.I.P.from Ch.6.020 Kms To Ch. 12.400 Kms including R.C.C.lining for the bottom critical portion between ch.9.550 kms to Ch.9.650 km, Ch. 9.650 Kms To Ch. 9.950 Kms and Ch.10.050 Kms to Ch.10.465 kms at villages Chandel, Casarvarnem in Pernem Taluka.**

**Ref. to Requisition No.:** - SDI/WDVII/WRD /F.354/2019-20/ 271      Dated :18-12-2019

Qty. Recived. : 12 Sets of cube      Date of Receipt:- 18 / 12 / 2019.      Tested on: - 08 /01 /2020 To 14/01/2020 as per due dates      Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 & 1:3:6      O.S No. :2964,2965,2979,2980/SS,1491,1492/AF,3010,3011,/SS,1522,1523,1526,1527/AF.

Lab. Sample No.: 7261 To 7272      Tested By: Mr. Anil R. Fadte, J.E. & Mrs. S.B.Naik Shirodkar. J.E.

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 11/ 12 / 2019, for Canal lining from Ch.9.865Km to Ch.9.935 Km.(P08)	28th day compressive strength	285.42	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	5.43	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 11/12/2019.
			260.51	Kg/Cm <sup>2</sup>			
			292.22	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>279.38</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 11/ 12 / 2019, for Canal lining from Ch.9.865Km to Ch.9.935 Km.(P08)	28th day compressive strength	276.36	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.58	-do-
			267.30	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>271.83</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 12/ 12 / 2019, for Canal lining from Ch.9.935Km to Ch.9.950 Km.(P09)	28th day compressive strength	265.04	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.86	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 12/12/2019.
			280.89	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>272.59</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 12/ 12 / 2019, for Canal lining from Ch.9.935Km to Ch.9.950 Km.(P09)	28th day compressive strength	253.71	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.29	... Do ....
			276.36	Kg/Cm <sup>2</sup>			
			299.01	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>276.36</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Plain Cement concrete cubes of mix 1:3:6 cast on 13 / 12 / 2019, for Canal bed from Ch.9.850Km to Ch.10.150 Km.(P10)	28th day compressive strength	126.85	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	26.10	1) Quantity Represents 60.00 m3 for two sets of cubes cast on 13/12/2019.
			129.12	Kg/Cm <sup>2</sup>			
			122.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>126.10</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Plain Cement concrete cubes of mix 1:3:6 cast on 13 / 12 / 2019, for Canal bed from Ch.9.850Km to Ch.10.150 Km.(P10)	28th day compressive strength	120.06	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	22.32	1) Quantity Represents 60.00 m3 for two sets of cubes caste on 13/12/2019.
			117.79	Kg/Cm <sup>2</sup>			
			129.12	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>122.32</b>			
7	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 14 / 12 / 2019, for Canal lining from Ch.10.050Km to Ch.10.175 Km.(P11)	28th day compressive strength	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	8.56	1) Quantity Represents 40.00 m3 for two sets of cubes caste on 14/12/2019.
			287.69	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>287.69</b>			
8	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 14 / 12 / 2019, for Canal lining from Ch.10.050Km to Ch.10.175 Km.(P11)	28th day compressive strength	305.81	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	17.68	-do-
			312.61	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>311.85</b>			
9	Plain Cement concrete cubes of mix 1:3:6 cast on 16 / 12 / 2019, for Canal bed from Ch.10.150Km to Ch.10.465 Km.(P12)	28th day compressive strength	124.59	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	25.34	1) Quantity Represents 60.00 m3 for two sets of cubes cast on 16/12/2019.
			129.12	Kg/Cm <sup>2</sup>			
			122.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>125.34</b>			
10	Plain Cement concrete cubes of mix 1:3:6 cast on 16 / 12 / 2019, for Canal bed from Ch.10.150Km to Ch.10.465 Km.(P12)	28th day compressive strength	122.32	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	24.59	-do-
			126.85	Kg/Cm <sup>2</sup>			
			124.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>124.59</b>			
11	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17 / 12 / 2019, for Canal lining from Ch.10.175Km to Ch.10.300 Km.(P13)	28th day compressive strength	260.51	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	1.72	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 17/12/2019.
			269.57	Kg/Cm <sup>2</sup>			
			278.63	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>269.57</b>			
12	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17 / 12 / 2019, for Canal lining from Ch.10.175Km to Ch.10.300 Km.(P13)	28th day compressive strength	278.63	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	5.71	-do-
			299.01	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>280.14</b>			

Copy to: 1. The Assistant Engineer , SDI , 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