

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 8277,8278,8283,8284, / Lab / **375** / 2019 - 20 Dated:- 07 / 01 / 2020. Laboratory : Bicholim - Goa.
8299,8300,8318,8319,8333,8334,8352 & 8353 . 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 providing 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.:- WRD / SD I/WDVII/ F.354 /2019-20/**250** dated :- 11 / 12 / 2019.

Qty. Recived. : 12 Sets of cube Date of Receipt:- 11 / 12 / 2019. Tested on: - 01 /01 /2020 To 07/01/2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cubes Mix of 1:3:6 & 1 : 1.5 : 3 O.S No. : 1416,1417 /AF, 2915,2916,2932,2933/SS,1434,1435,1460,1461,1474,1475/AF. Lab. Sample No.: 7207 To 7218 Tested By: Mr. Anil. R. Fadte., J.E. & 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	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 04 /12/2019, PCC for Canal Base from ch. 9.550 Km To Ch. 9.750 Km.	28 th day compressive strength	108.73	Kg/Cm ²	100.00 Kg/cm ²	14.77	1) Qty represents - 40.00 Cum for two sets of cubes cast on 04/12/2019
			129.12	Kg/Cm ²			
			106.47	Kg/Cm ²			
			Average	114.77			
2	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 04 /12/2019, PCC for Canal Base from ch. 9.550 Km To Ch. 9.750 Km.	28 th day compressive strength	101.94	Kg/Cm ²	100.00 Kg/cm ²	13.26	... Do
			126.85	Kg/Cm ²			
			111.00	Kg/Cm ²			
			Average	113.26			
3	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 05 /12/2019, PCC for Canal Base from ch. 9.750 Km To Ch. 9.850 Km.	28 th day compressive strength	124.59	Kg/Cm ²	100.00 Kg/cm ²	26.10	1) Qty represents - 20.00 Cum. 2) 28 th day test is due on 02 / 01 / 2020 , which may please be witnessed .
			135.92	Kg/Cm ²			
			117.79	Kg/Cm ²			
			Average	126.10			
4	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 05 /12/2019, RCC for Canal Lining from Ch. 9.550 Km To Ch. 9.585 Km.	28 th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/cm ²	5.71	1) Qty represents - 20.00 Cum.
			271.83	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	280.14			
5	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 06 /12/2019, RCC for Canal Lining from Ch. 9.585 Km To Ch. 9.655 Km.	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	3.72	1) Qty represents - 40.00 Cum for two sets of cubes cast on 06/12/2019 .
			271.83	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	274.85			

Junior Engineer

Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 06 /12/2019, RCC for Canal Lining from Ch. 9.585 Km To Ch. 9.655 Km.	28 th day compressive strength	260.51	Kg/Cm ²	265.00 Kg/cm ²	7.14	1) Qty represents - 40.00 Cum for two sets of cubes cast on 06/12/2019 .
			287.69	Kg/Cm ²			
			303.55	Kg/Cm ²			
			Average	283.91			
7	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 07 /12/2019, RCC for Canal Lining from Ch. 9.655 Km To Ch. 9.725 Km.	28 th day compressive strength	344.32	Kg/Cm ²	265.00 Kg/cm ²	23.09	1) Qty represents - 40.00 Cum for two sets of cubes cast on 07/12/2019.
			305.81	Kg/Cm ²			
			328.46	Kg/Cm ²			
			Average	326.20			
8	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 07 /12/2019, RCC for Canal Lining from Ch. 9.655 Km To Ch. 9.725 Km.	28 th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/cm ²	17.96	... Do
			323.93	Kg/Cm ²			
			305.81	Kg/Cm ²			
			Average	312.61			
9	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 09 /12/2019, RCC for Canal Lining from Ch. 9.725 Km To Ch. 9.795 Km.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	3.72	1) Qty represents - 40.00 Cum for two sets of cubes cast on 09/12/2019 .
			262.77	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	274.85			
10	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 09 /12/2019, RCC for Canal Lining from Ch. 9.725 Km To Ch. 9.795 Km.	28 th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/cm ²	7.71	... Do
			265.04	Kg/Cm ²			
			312.61	Kg/Cm ²			
			Average	285.42			
11	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 10 /12/2019, RCC for Canal Lining from Ch. 9.795 Km To Ch. 9.865 Km.	28 th day compressive strength	267.30	Kg/Cm ²	265.00 Kg/cm ²	1.72	1) Qty represents - 40.00 Cum for two sets of cubes cast on 10/12/2019.
			276.36	Kg/Cm ²			
			265.04	Kg/Cm ²			
			Average	269.57			
12	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 10 /12/2019, RCC for Canal Lining from Ch. 9.795 Km To Ch. 9.865 Km.	28 th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/cm ²	3.15	... Do
			287.69	Kg/Cm ²			
			262.77	Kg/Cm ²			
			Average	273.34			

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