

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T-8115,8116,8126,8127,8145,8146,8157,8158,8179,8180,8188,8189/Lab/**347**/2019-20 Dt:-24/12/2019
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,Kasarvarnem 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: - 18 /12 /2019 To 24/12/2019 as per due dates Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 & 1:3:6 O.S No. :1271,1272,/AF, 2880,2881 /SS,1288,1289,1300,1301,1322,1323,1331,1332/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.	7 th day compressive strength	176.69	Kg/Cm ²	175.00 Kg/cm ²	9.16	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 11/12/2019. 2) 28th day test on 08/01/2020 which may please be witnessed
			185.75	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	191.04	Kg/Cm²			
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.	7 th day compressive strength	192.55	Kg/Cm ²	175.00 Kg/cm ²	6.14	-do-
			194.81	Kg/Cm ²			
			169.89	Kg/Cm ²			
		Average	185.75	Kg/Cm²			
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.10.005 Km.	7 th day compressive strength	185.75	Kg/Cm ²	175.00 Kg/cm ²	3.12	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 12/12/2019. 2) 28th day test is due on 09/01/2020 which may please be witnessed
			172.16	Kg/Cm ²			
			183.49	Kg/Cm ²			
		Average	180.47	Kg/Cm²			
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.10.005 Km.	7 th day compressive strength	192.55	Kg/Cm ²	175.00 Kg/cm ²	5.28	... Do
			181.22	Kg/Cm ²			
			178.96	Kg/Cm ²			
		Average	184.24	Kg/Cm²			
5	Plain Cement concrete cubes of mix 1:3:6 cast on 13/ 12 / 2019, for Canal bed from Ch.9.850 Km to Ch.10.150 Km.	7 th day compressive strength	86.08	Kg/Cm ²	70.00 Kg/cm ²	27.29	1) Quantity Represents 60.00 m3 for two sets of cubes cast on 13/12/2019. 2) 28th day test is due on 10/01/2020 which may please be witnessed
			90.61	Kg/Cm ²			
			90.61	Kg/Cm ²			
		Average	89.10	Kg/Cm²			

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.9.850 Km to Ch.10.150 Km.	7 th day compressive strength	88.35	Kg/Cm ²	70.00 Kg/cm ²	21.89	1) Quantity Represents 60.00 m3 for two sets of cubes caste on 13/12/2019. 2) 28th day test is due on 10/01/2020 which may please be witnessed
			83.81	Kg/Cm ²			
			83.81	Kg/Cm ²			
			Average	85.32			
7	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 14/ 12 / 2019, for Canal lining from Ch.10.005Km to Ch.10.075 Km.	7 th day compressive strength	203.87	Kg/Cm ²	175.00 Kg/cm ²	23.40	1) Quantity Represents 40.00 m3 for two sets of cubes caste on 14/12/2019. 2) 28th day test is due on 11/01/2020 may please be witnessed
			224.26	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	215.95			
8	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 14/ 12 / 2019, for Canal lining from Ch.10.005Km to Ch.10.075 Km.	7 th day compressive strength	226.53	Kg/Cm ²	175.00 Kg/cm ²	26.85	-do-
			222.00	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	222.00			
9	Plain Cement concrete cubes of mix 1:3:6 cast on 16/ 12 / 2019, for Canal bed from Ch.10.150Km to Ch.10.465Km.	7 th day compressive strength	88.35	Kg/Cm ²	70.00 Kg/cm ²	25.13	1) Quantity Represents 60.00 m3 for two sets of cubes cast on 16/12/2019. 2) 28th day test is due on 13/01/2020 which may please be witnessed
			83.81	Kg/Cm ²			
			90.61	Kg/Cm ²			
			Average	87.59			
10	Plain Cement concrete cubes of mix 1:3:6 cast on 16/ 12 / 2019, for Canal bed from Ch.10.150Km to Ch.10.465Km.	7 th day compressive strength	90.61	Kg/Cm ²	70.00 Kg/cm ²	22.97	-do-
			79.28	Kg/Cm ²			
			88.35	Kg/Cm ²			
			Average	86.08			
11	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17 / 12 / 2019, for Canal lining from Ch.9.795Km to Ch.9.865Km.	7 th day compressive strength	224.26	Kg/Cm ²	175.00 Kg/cm ²	28.58	1) Quantity Represents 40.00 m3 for two sets of cubes cast on 17/12/2019. 2) 28th day test is due on 14/01/2020 which may please be witnessed
			226.53	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	225.02			
12	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 17 / 12 / 2019, for Canal lining from Ch.9.795Km to Ch.9.865Km.	7 th day compressive strength	222.00	Kg/Cm ²	175.00 Kg/cm ²	27.29	-do-
			222.00	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	222.75			

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