

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T-8215,8218,8219 & 8258 /Lab/**360**/2019-20 Dt:-30 / 12 / 2019  
Sub Division V (QC)/WRD/ Bicholim- Goa.

Laboratory : 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/ 290 Dated :- 26-12-2019

Qty. Recived. : 04 Sets of cube Date of Receipt:- 26 / 12 / 2019. Tested on: - 26 / 12 / 2019 To 30/12/2019 as per due dates Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 O.S No. :1356,1359,1360 ,1397/AF. Sample No.: 7385 To 7387 & 7390 Tested By: Mr. Anil R. Fadte, 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 19 / 12 / 2019, for Canal lining from Ch.10.300Km to Ch.10.333 Km.	7 <sup>th</sup> day compressive strength	185.75	Kg/Cm <sup>2</sup>	175.00 Kg/cm <sup>2</sup>	14.77	1) Quantity Represents 15.00 m3 . 2) 28th day test on 16/01/2020 which may please be witnessed
			188.02	Kg/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>200.85</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 20 / 12 / 2019, for Canal lining from Ch.10.333Km to Ch.10.399 Km.	7 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	175.00 Kg/cm <sup>2</sup>	29.01	1) Quantity Represents 30.00 m3 for two sets of cubes cast on 20/12/2019. 2) 28th day test is due on 17/01/2020 which may please be witnessed
			224.26	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 20 / 12 / 2019, for Canal lining from Ch.10.333Km to Ch.10.399 Km.	7 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	175.00 Kg/cm <sup>2</sup>	23.83	... Do ....
			222.00	Kg/Cm <sup>2</sup>			
			201.61	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Reinforced Cement concrete cubes of mix 1:1.5:3 cast on 23 / 12 / 2019, for Canal lining from Ch.10.432Km to Ch.10.465 Km.	7 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	175.00 Kg/cm <sup>2</sup>	27.29	1) Quantity Represents 15.00 m3 . 2) 28th day test on 20/01/2020 which may please be witnessed
			219.73	Kg/Cm <sup>2</sup>			
			222.00	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm<sup>2</sup></b>			

**NOTE :- Cubes cast on 21 / 12 / 2019 are not tested for 7<sup>th</sup> day test , since 3 Nos of cubes are casted in the presence of RITES Officials and remaining 3 Nos of cubes are casted by the agency. Both two sets are preserved for 28<sup>th</sup> day test which is due on 19 / 01 / 2020. Accordingly RITES Officials may please be informed for witnessing cube test on 19/01/2020.**

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