

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 8440 To 8445, 8470 To 8475, 8485 To 8490,8494 To 8499 / Lab / **388** / 2019 - 20 Dated:- 17 / 01 / 2020.
Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of 10 cm thich P.C.C. lining including filter media from Ch. 6.00 Kms to Ch, 7.500 Kms of L.B.M.C. of T.I.P. in Nandoda village in Bicholim Taluka.

Ref. to Requisition No.: S.D. II /W.D. VIII /W.R.D. / F.160 / 2019-20 / **153** Dated :- 06 / 01 / 2020.

Qty. Recived : 24 Sets of cube Date of Receipt:- 07/ 01 / 2020. Tested on: - 12/01/2020 To 15 /01/2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 O.S No. : 1498 To 1503/AF,3033 To 3038 , 3044 To 3049,3057 To 3062/SS. Lab. Sample No.: 7564 To 7587.

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Tested By: Mr. Anil. R. Fadte J.E & Mrs. S.B. Naik Shirodkar. J.E.

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	5.71	Quantity represents 175.00 Cum for six sets of cubes cast on 15/12/2019.
			278.63	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	280.14	Kg/Cm²			
2	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	274.10	Kg/Cm ²	265.00 Kg/cm ²	6.28	--- do ---
			283.16	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	281.65	Kg/Cm²			
3	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	5.14	--- do ---
			278.63	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	278.63	Kg/Cm²			
4	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	265.04	Kg/Cm ²	265.00 Kg/cm ²	4.00	--- do ---
			278.63	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	275.61	Kg/Cm²			

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Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
5	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	3.72	Quantity represents 175.00 Cum for six sets of cubes cast on 15/12/2019.
			265.04	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	274.85	Kg/Cm²			
6	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 15/12/2019, for Canal lining from Ch. 6.555 Kms To 6.730 Kms.	28 th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/cm ²	3.43	--- do ---
			267.30	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	274.10	Kg/Cm²			
7	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/cm ²	3.72	Quantity represents 180.40 Cum for six sets of cubes cast on 16 / 12 / 2019.
			267.30	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	274.85	Kg/Cm²			
8	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	2.29	--- do ---
			276.36	Kg/Cm ²			
			274.10	Kg/Cm ²			
		Average	271.08	Kg/Cm²			
9	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	3.15	--- do ---
			271.83	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	273.34	Kg/Cm²			
10	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/cm ²	2.01	--- do ---
			249.18	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	270.32	Kg/Cm²			
11	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	2.58	--- do ---
			255.97	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	271.83	Kg/Cm²			
12	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 16 /12 /2019, for Canal lining from Ch. 6.730 Kms To 6.880 Kms.	28 th day compressive strength	260.51	Kg/Cm ²	265.00 Kg/cm ²	4.00	--- do ---
			280.89	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	275.61	Kg/Cm²			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
13	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	2.58	Quantity represents 165.60 Cum for six sets of cubes cast on 17 / 12 / 2019.
			283.16	Kg/Cm ²			
			260.51	Kg/Cm ²			
		Average	271.83	Kg/Cm²			
14	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	2.01	--- do ---
			253.71	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	270.32	Kg/Cm²			
15	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	2.86	--- do ---
			283.16	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	272.59	Kg/Cm²			
16	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/cm ²	3.43	--- do ---
			258.24	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	274.10	Kg/Cm²			
17	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/cm ²	4.00	--- do ---
			271.83	Kg/Cm ²			
			265.04	Kg/Cm ²			
		Average	275.61	Kg/Cm²			
18	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 17 / 12 / 2019, for Canal lining from Ch. 6.880 Kms To 7.000 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	4.57	--- do ---
			292.22	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
19	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 / 12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	2.29	Quantity represents 175.36Cum for six sets of cubes cast on 18 / 12 / 2019.
			265.04	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	271.08	Kg/Cm²			
20	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 / 12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/cm ²	2.86	--- do ---
			262.77	Kg/Cm ²			
			274.10	Kg/Cm ²			
		Average	272.59	Kg/Cm²			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
21	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 /12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	3.15	Quantity represents 175.36Cum for six sets of cubes cast on 18 / 12 / 2019.
			285.42	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	273.34	Kg/Cm²			
22	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 /12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	253.71	Kg/Cm ²	265.00 Kg/cm ²	2.86	--- do ---
			271.83	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	272.59	Kg/Cm²			
23	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 /12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	3.43	--- do ---
			267.30	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	274.10	Kg/Cm²			
24	Plain Cement concrete cube of mix 1 : 1.5 : 3 , cast on 18 /12 / 2019, for Canal lining from Ch. 7.00 Kms To 7.128 Kms.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	4.00	--- do ---
			269.57	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	275.61	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SDII , 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.

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