

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 433,434,438 to 440, / Lab / **195** / 2020 - 21 Dated:- 11 / 01 / 2021 Laboratory : Bicholim - Goa.

444 to 449, 454 to 459 & 463 to 467

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

Name of work : Improvement to the R.B.M.C. of T.I.P. by providing 100mm thick RCC Lining from Ch.0.00 kms to Ch.6.020 kms excluding Hassapur aqueduct and Kalna aqueduct between chainage 4.165 to 4.227 and 4.772 to 5.117 kms at village Ankane-Hassapur and Hali in Pernem Taluka.

Ref. to Requisition No.: F.353/SDI/WDVII/WRD/2020-21/176 dt. 04/12/2020.

Qty. Recived. : 22 Sets of cube Date of Receipt:- 07 / 12 / 2020. Tested on: - 24/12/2020 To 28 /12/2020 as per due dates Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:1.5:3, O.S No.4457,4458,4465to 4467, 4474to4479,4486to4491& 4500to4504 : /SS. Lab. Sample No.: 9688 TO 9709

Tested By: 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	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 26/11/2020, P.C.C. for Ch-4.457 to Ch-4.487 mts. (P62)	28 th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/cm ²	4.57	Qty represents - 40.00 Cum for two sets of cubes.
			258.24	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
2	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 26/11/2020, P.C.C. for Ch-4.457 to Ch-4.487 mts. (P62)	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	4.86	----- do -----
			285.42	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	277.87	Kg/Cm²			
3	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 27/11/2020, P.C.C. for Ch-4.487 to Ch-4.532 mts. (P63)	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	4.57	Qty represents - 60.00 Cum for three sets of cubes.
			253.71	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	277.12	Kg/Cm²			
4	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 27/11/2020, P.C.C. for Ch-4.487 to Ch-4.532 mts. (P63)	28 th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/cm ²	7.99	----- do -----
			296.75	Kg/Cm ²			
			276.36	Kg/Cm ²			
		Average	286.18	Kg/Cm²			

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5	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 27/11/2020, P.C.C. for Ch-4.487 to Ch-4.532 mts. (P63)	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	5.43	Qty represents - 60.00 Cum for three sets of cubes.
			289.95	Kg/Cm ²			
			253.71	Kg/Cm ²			
		Average	279.38	Kg/Cm²			
6	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	262.77	Kg/Cm ²	265.00 Kg/cm ²	7.42	Qty represents - 120.00 Cum for six sets of cubes.
			305.81	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	284.67	Kg/Cm²			
7	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	317.14	Kg/Cm ²	265.00 Kg/cm ²	18.25	----- do -----
			335.26	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	313.36	Kg/Cm²			
8	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	249.18	Kg/Cm ²	265.00 Kg/cm ²	8.56	----- do -----
			292.22	Kg/Cm ²			
			321.67	Kg/Cm ²			
		Average	287.69	Kg/Cm²			
9	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	7.71	----- do -----
			253.71	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	285.42	Kg/Cm²			
10	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	317.14	Kg/Cm ²	265.00 Kg/cm ²	13.69	----- do -----
			283.16	Kg/Cm ²			
			303.55	Kg/Cm ²			
		Average	301.28	Kg/Cm²			
11	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/11/2020, R.C.C.. for Ch-4.532 to Ch-4.622 mts. (P64)	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	13.12	----- do -----
			321.67	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	299.77	Kg/Cm²			

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12	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	308.08	Kg/Cm ²	265.00 Kg/cm ²	17.96	Qty represents - 120.00 Cum for six sets of cubes.
			303.55	Kg/Cm ²			
			326.20	Kg/Cm ²			
		Average	312.61	Kg/Cm²			
13	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	7.14	---- do ----
			246.91	Kg/Cm ²			
			310.34	Kg/Cm ²			
		Average	283.91	Kg/Cm²			
14	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	258.24	Kg/Cm ²	265.00 Kg/cm ²	7.14	---- do ----
			289.95	Kg/Cm ²			
			303.55	Kg/Cm ²			
		Average	283.91	Kg/Cm²			
15	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	317.14	Kg/Cm ²	265.00 Kg/cm ²	7.99	---- do ----
			280.89	Kg/Cm ²			
			260.51	Kg/Cm ²			
		Average	286.18	Kg/Cm²			
16	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	294.48	Kg/Cm ²	265.00 Kg/cm ²	7.14	---- do ----
			246.91	Kg/Cm ²			
			310.34	Kg/Cm ²			
		Average	283.91	Kg/Cm²			
17	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 29/11/2020, R.C.C.. for Ch-4.622 to Ch-4.712 mts. (P65)	28 th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/cm ²	12.27	---- do ----
			321.67	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	297.50	Kg/Cm²			
18	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/11/2020, R.C.C.. for Ch-4.712 to Ch-4.772 mts. (P66)	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	3.15	Qty represents - 100.00 Cum for Five sets of cubes.
			253.71	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	273.34	Kg/Cm²			

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19	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/11/2020, R.C.C.. for Ch-4.712 to Ch-4.772 mts. (P66)	28 th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/cm ²	10.56	Qty represents - 100.00 Cum for Five sets of cubes.
			280.89	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	292.97	Kg/Cm²			
20	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/11/2020, R.C.C.. for Ch-4.712 to Ch-4.772 mts. (P66)	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	3.72	----- do -----
			303.55	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	274.85	Kg/Cm²			
21	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/11/2020, R.C.C.. for Ch-4.712 to Ch-4.772 mts. (P66)	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	5.71	----- do -----
			303.55	Kg/Cm ²			
			253.71	Kg/Cm ²			
		Average	280.14	Kg/Cm²			
22	Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/11/2020, R.C.C.. for Ch-4.712 to Ch-4.772 mts. (P66)	28 th day compressive strength	310.34	Kg/Cm ²	265.00 Kg/cm ²	16.25	----- do -----
			289.95	Kg/Cm ²			
			323.93	Kg/Cm ²			
		Average	308.08	Kg/Cm²			

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.

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