

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2909,2910,2917,2918,2925,2926,2929,/ Lab /272 / 2021 - 22 Dated:- 02/ 02 /2022.
2930,2935,2943,2944,2951,2965,2966,2983,2984, 3011,3012,3028,3029,3044,3045,3048 & 3049

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

Name of work :Construction of Anjuna Distributory taking off at Ch.28.970 km of the Left Bank Main Canal of Tillari Irrigation Project in Siolim & Anjuna Village of Bardez Taluka. Part – III : Construction of Rising main Ch.4.50Kms to Ch. 7.290 Kms, Break Pressure Tank(BPT), Gravity main from Ch.0.00 Kms to Ch.1.00 Kms and reinstatement of allied structures of Anjuna Distributory in Siolim and Assagao Village of Bardez Taluka.

Ref. to Requisition No.: SDIII/WDVIII/WRD/WF.32(PART-III)/2021-22/250 Dated :- 05/01/ 2022.

Qty. Received. : 24 Sets of cube Date of Receipt:- 06/01/2022. Tested on: 07,08,10,11,12,14,15,17,19,21,22,24 & 25/01/2022as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 & 1:1.5:3 O.S No. :7298,7299,7308,7309,7316,7317,7324,7325,7333,7341,7342,7352,7367,7368,7391,7392,7422,7423,7441,7442,7462,7463,7471&7472/SS Lab. Sample No.: 2647 To 2670 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 1:2:4, cast on 10/12/2021. For Retaining wall at church ground foundation.	28 th day compressive strenath	262.77	Kg/Cm ²	210.00 Kg/cm ²	17.94	Qty represents -36.50 Cum for two sets of cubes.
			249.18	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	247.67			
2	Cement concrete cube of mix 1:2:4, cast on 10/12/2021. For Retaining wall at church ground foundation.	28 th day compressive strenath	203.87	Kg/Cm ²	210.00 Kg/cm ²	4.63	-do-
			217.47	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	219.73			
3	Cement concrete cube of mix 1:2:4, cast on 11/12/2021. For Retaining wall at church ground nr. Air valve - foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents -32.00 Cum for two sets of cubes.
			233.32	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	223.51			
4	Cement concrete cube of mix 1:2:4, cast on 11/12/2021. For Retaining wall at church ground nr. Air valve - foundation.	28 th day compressive strenath	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.87	-do-
			217.47	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	226.53			
5	Cement concrete cube of mix 1:2:4, cast on 13/12/2021. For Retaining wall at church ground 1st lift.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents -28.00 Cum
			226.53	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	227.28			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix 1:2:4, cast on 13/12/2021. For Retaining wall at church ground - 1st lift.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents -28.00 Cum
			222.00	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4, cast on 14/12/2021. For Retaining wall at church ground nr. Air valve - 1st lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents -25.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4, cast on 14/12/2021. For Retaining wall at church ground nr. Air valve - 1st lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	5.35	-do-
			219.73	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4, cast on 15/12/2021. For Retaining wall at church ground nr. Air valve - 2nd lift.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents -15.00 Cum
			219.73	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4, cast on 17/12/2021. For 45 deg thrust bl. at church ground.	28 th day compressive strength	305.81	Kg/Cm ²	265.00 Kg/cm ²	5.14	Qty represents -32.00 Cum for two sets of cubes.
			271.83	Kg/Cm ²			
			258.24	Kg/Cm ²			
		Average	278.63	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4, cast on 17/12/2021. For 45 deg thrust bl. at church ground.	28 th day compressive strength	271.83	Kg/Cm ²	265.00 Kg/cm ²	6.28	-do-
			294.48	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	281.65	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4, cast on 18/12/2021. For 11.25 deg thrust bl. at church ground.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	2.86	Qty represents -13.00 Cum
			271.83	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	272.59	Kg/Cm²			
13	Cement concrete cube of mix 1:2:4, cast on 20/12/2021. For NRV chamber at church grund. Ch. 6.30 kms - 1st lift & bed PCC for road side gutter at sonarkhed.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents -21.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	227.28	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
14	Cement concrete cube of mix 1:2:4, cast on 20/12/2021. For NRV chamber at church grund. Ch. 6.30 kms - 1st lift & bed PCC for road side gutter at sonarkhed.	28 th day compressive strenath	224.26	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents -21.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
15	Cement concrete cube of mix 1:2:4, cast on 22/12/2021. For NRV chamber at church grund. Ch. 6.30 kms - 2nd lift & bed PCC for road side gutter at sonarkhed.	28 th day compressive strenath	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents -20.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
16	Cement concrete cube of mix 1:2:4, cast on 22/12/2021. For NRV chamber at church grund. Ch. 6.30 kms - 2nd lift & bed PCC for road side gutter at sonarkhed.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.95	-do-
			222.00	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
17	Cement concrete cube of mix 1:2:4, cast on 24/12/2021. For road side gutter at sonarkhed. 0.75 m.	28 th day compressive strenath	217.47	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents -32.00 Cum for two sets of cubes.
			233.32	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	231.06	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4, cast on 24/12/2021. For road side gutter at sonarkhed. 0.75 m.	28 th day compressive strenath	208.40	Kg/Cm ²	210.00 Kg/cm ²	3.20	-do-
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
19	Cement concrete cube of mix 1:2:4, cast on 25/12/2021. For road side gutter at sonarkhed. 75-150m.	28 th day compressive strenath	260.51	Kg/Cm ²	210.00 Kg/cm ²	17.58	Qty represents -32.00 Cum for two sets of cubes.
			244.65	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	246.91	Kg/Cm²			
20	Cement concrete cube of mix 1:2:4, cast on 25/12/2021. For road side gutter at sonarkhed. 75-150m.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	13.98	-do-
			253.71	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	239.36	Kg/Cm²			
21	Cement concrete cube of mix 1:2:4, cast on 27/12/2021. For road side gutter at sonarkhed. 150-235m.	28 th day compressive strenath	249.18	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents -36.00 Cum for two sets of cubes.
			246.91	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	239.36	Kg/Cm²			

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22	Cement concrete cube of mix 1:2:4, cast on 27/12/2021. For road side gutter at sonarkhed. 150-235m.	28 th day	253.71	Kg/Cm ²	210.00 Kg/cm ²	14.70	Qty represents -36.00 for two sets of cubes.
		compressive	226.53	Kg/Cm ²			
		strengath	242.38	Kg/Cm ²			
		Average	240.87	Kg/Cm²			
23	Cement concrete cube of mix 1:2:4, cast on 28/12/2021. For road side gutter at sonarkhed. 0-75m.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents -40.00 Cum for two sets of cubes.
		compressive	219.73	Kg/Cm ²			
		strengath	244.65	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4, cast on 28/12/2021. For road side gutter at sonarkhed. 0-75m.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.87	-do-
		compressive	215.20	Kg/Cm ²			
		strengath	237.85	Kg/Cm ²			
		Average	226.53	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD III , WD VIII, WRD- Karaswada, 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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