

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :1972,1973,1980,1981,1996,1997,2005,2006,2013/ Lab / **88**/ 2021 - 22 Dated:- 31 / 05 / 2021. Laboratory : Bicholim - Goa.
,2014,2027,2028,2033,2034,2043,2044,2054,2055,2065,2066,2071,2072,2076,2077,2083,2084,2092,2093 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of Anjuna Distributory taking off at ch.28.970km of the left Bank Main canal of Tillari irrigation Project in Siolim & Anjuna village of Bardez Taluka.part II:Construction of Rising Main and reinstatement of allied structures of Anjuna Distributory from ch.0.0kms to ch.4.50kms in Cucholim and Siolim village of Bardez Taluka.

Ref. to Requisition No.:SDIII/WDVIII/WRD/WF.32(PART-II)/21-22/33 Dated :- 03/ 05 / 2021.

Qty. Recived. :28 Sets of cube Date of Receipt:- 03/ 05 / 2021. Tested on: -14,15,17 to 29/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 & 1:2:4 O.S No.:

6198,6199,6206,6207,6226,6227/SS.59,60/RK,6236,6237,6251,6252,6257,6258,6267,6268,6278,6279,6291,6292,6298,6299,6305,6306,6313,6314,6325,6326/SS.

Lab. Sample No.: 1437 To 1464 Tested By: Mrs.R.R.Kadam.A.E. & Mrs.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 16/04/2021. For R/wall wing wall at Cucholim bridge.foundation	28 th day compressive strenath	231.06	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 20.50 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	218.22			
2	Cement concrete cube of mix 1 : 2 :4 , cast on 16/04/2021. For R/wall wing wall at Cucholim bridge.foundation	28 th day compressive strenath	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.99	----do----
			210.67	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	220.49			
3	Cement concrete cube of mix 1 :1.5 :3 , cast on 17/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	283.16	Kg/Cm ²	265.00 Kg/cm ²	5.71	Qty represents - 20.00 Cum for two sets of cubes.
			305.81	Kg/Cm ²			
			251.44	Kg/Cm ²			
			Average	280.14			
4	Cement concrete cube of mix 1 :1.5 :3 , cast on 17/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	294.48	Kg/Cm ²	265.00 Kg/cm ²	6.00	----do----
			271.83	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	280.89			
5	Cement concrete cube of mix 1 :1.5 :3 , cast on 19/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	285.42	Kg/Cm ²	265.00 Kg/cm ²	3.43	Qty represents - 20.00 Cum for two sets of cubes.
			265.04	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	274.10			
6	Cement concrete cube of mix 1 :1.5 :3 , cast on 19/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	262.77	Kg/Cm ²	265.00 Kg/cm ²	5.43	----do----
			294.48	Kg/Cm ²			
			280.89	Kg/Cm ²			
			Average	279.38			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1:1.5:3 , cast on 20/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	310.34	Kg/Cm ²	265.00 Kg/cm ²	15.69	Qty represents - 20.50 Cum for two sets of cubes.
			292.22	Kg/Cm ²			
			317.14	Kg/Cm ²			
			Average	306.57			
8	Cement concrete cube of mix 1:1.5:3 , cast on 20/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	294.48	Kg/Cm ²	265.00 Kg/cm ²	11.41	----do----
			285.42	Kg/Cm ²			
			305.81	Kg/Cm ²			
			Average	295.24			
9	Cement concrete cube of mix 1:1.5:3 , cast on 21/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strenath	253.71	Kg/Cm ²	265.00 Kg/cm ²	2.29	Qty represents - 18.50 Cum for two sets of cubes.
			283.16	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	271.08			
10	Cement concrete cube of mix 1:1.5:3 , cast on 21/04/2021. For 90deg thrust block at Cucholim bridge.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	5.14	----do----
			283.16	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	278.63			
11	Cement concrete cube of mix 1:1.5:3 , cast on 22/04/2021. For 11.25 deg thrust block at Cucholim bridge at air valve of pressure conduit.	28 th day compressive strength	258.24	Kg/Cm ²	265.00 Kg/cm ²	3.43	Qty represents - 20.00 Cum for two sets of cubes.
			292.22	Kg/Cm ²			
			271.83	Kg/Cm ²			
			Average	274.10			
12	Cement concrete cube of mix 1:1.5:3 , cast on 22/04/2021. For 11.25 deg thrust block at Cucholim bridge at air valve of pressure conduit.	28 th day compressive strength	258.24	Kg/Cm ²	265.00 Kg/cm ²	2.86	----do----
			269.57	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	272.59			
13	Cement concrete cube of mix 1:2:4 , cast on 23/04/2021. For R/wall wing at Cucholim bridge 1 st lift.	28 th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 18.00 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	239.36			
14	Cement concrete cube of mix 1:2:4 , cast on 23/04/2021. For R/wall wing at Cucholim bridge 1 st lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	5.71	----do----
			208.40	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	222.00			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
15	Cement concrete cube of mix 1:2:4 , cast on 24/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road.foundation.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	17.94	Qty represents - 14.50 Cum for two sets of cubes.
			258.24	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	247.67	Kg/Cm²			
16	Cement concrete cube of mix 1:2:4 , cast on 24/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road.foundation.	28 th day compressive strength	255.97	Kg/Cm ²	210.00 Kg/cm ²	17.22	----do----
			244.65	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	246.16	Kg/Cm²			
17	Cement concrete cube of mix 1:2:4 , cast on 26/04/2021. For R/wall wing at Cucholim bridge 2 nd lift.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents - 12.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4 , cast on 26/04/2021. For R/wall wing at Cucholim bridge 2 nd lift.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	4.63	----do----
			226.53	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
19	Cement concrete cube of mix 1:2:4 , cast on 27/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road. 1 st lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents - 12.50 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
20	Cement concrete cube of mix 1:2:4 , cast on 27/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road. 1 st lift.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	9.67	----do----
			224.26	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
21	Cement concrete cube of mix 1:2:4 , cast on 28/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road. 2 nd lift.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents -6.00 Cum for two sets of cubes.
			217.47	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
22	Cement concrete cube of mix 1:2:4 , cast on 28/04/2021. For R/wall Marna opp.Ganeshpuri jn.Road. 2 nd lift.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	14.34	----do----
			246.91	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	240.12	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
23	Cement concrete cube of mix 1:2:4 , cast on 29/04/2021. For R/wall at Cucholim near Horticulture shop-foundation.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents -17.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4 , cast on 29/04/2021. For R/wall at Cucholim near Horticulture shop-foundation.	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	5.71	----do----
			217.47	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4 , cast on 30/04/2021. For R/wall at Cucholim near Horticulture shop- 1st lift.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents -13.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			206.14	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 30/04/2021. For R/wall at Cucholim near Horticulture shop- 1st lift.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.23	----do----
			226.53	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4 , cast on 01/05/2021. For R/wall at Cucholim near Horticulture shop- 2 nd lift.	28 th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents -8.00 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
28	Cement concrete cube of mix 1:2:4 , cast on 01/05/2021. For R/wall at Cucholim near Horticulture shop- 2 nd lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.23	----do----
			235.59	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	227.28	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SDIII , 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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