

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 1884,1885,1893,1894,1903,1904/ Lab / **76** / 2021 - 22 Dated:- 20/05/2021. Laboratory : Bicholim - Goa.
1917,1918,1933, 1934,1935,1936,1956,1957,1958,1959, 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)/21-22/16 Dated :- 16/ 04/ 2021.

Qty. Received. : 16 Sets of cube Date of Receipt:- 16/ 04/ 2021. Tested on: -05,06,07,08,10,13/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. : 6101,6102/SS,50,51/RK,6113,6114,6131,6132,6147,6148,6149,6150,6181,6182,6183,6184/SS. Lab. Sample No.: 1228 To 1243

Tested By: Mrs.R.R.Kadam A.E & Mrs. Shirodkar. J.E.

REPORT PAGE 01 OF 03

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix 1 : 2 : 4 , cast on 07/04/2021. For R/wall at Cucholim bridge. Ch.51.50-60.0m 2 nd lift.	28 th day compressive strenath	224.26	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 7.50 Cum for two sets of cubes.
			201.61	Kg/Cm ²			
			249.18	Kg/Cm ²			
			Average	225.02			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 07/04/2021. For R/wall at Cucholim bridge. Ch.51.50-60.0m 2 nd lift.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	12.54	----- do -----
			217.47	Kg/Cm ²			
			253.71	Kg/Cm ²			
			Average	236.34			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 08/04/2021. For R/wall at Cucholim bridge. Ch.0.00-30.0m 3 rd lift.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 10.00 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	230.30			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 08/04/2021. For R/wall at Cucholim bridge. Ch.0.00-30.0m 3 rd lift.	28 th day compressive strenath	258.24	Kg/Cm ²	210.00 Kg/cm ²	20.09	----- do -----
			260.51	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	252.20			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 09/04/2021. For R/wall at Cucholim bridge. Ch.30.00-60.0m 3 rd lift.	28 th day compressive strenath	217.47	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 11.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	228.04			
6	Cement concrete cube of mix 1 : 2 : 4 , cast on 09/04/2021. For R/wall at Cucholim bridge. Ch.30.00-60.0m 3 rd lift.	28 th day compressive strenath	203.87	Kg/Cm ²	210.00 Kg/cm ²	4.27	----- do -----
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	218.98			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 03

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 10/04/2021. For R/wall at Cucholim bridge. Cucholim side Ch 0 - 9.50m foundation.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 21.00 Cum for two sets of cubes.
			262.77	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	237.85			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 10/04/2021. For R/wall at Cucholim bridge. Cucholim side Ch 0 - 9.50m foundation.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	8.95	----- do -----
			215.20	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	228.79			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/04/2021. For Bed PCC for laying 900mm D.I pipeline in fields.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 18.00 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	219.73			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/04/2021. For Bed PCC for laying 900mm D.I pipeline in fields.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			244.65	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	223.51			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/04/2021. For R/w at Cucholim bridge at thrust bl. Ch.0-9.50m. 1 st lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents - 20.00 Cum for two sets of cubes.
			258.24	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	240.12			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/04/2021. For R/w at Cucholim bridge at thrust bl. Ch.0-9.50m. 1 st lift.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	9.31	----- do -----
			240.12	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	229.55			
13	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/04/2021. For R/w at Cucholim bridge at thrust bl. Ch.0-9.50m. 2 nd lift.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	1.76	Qty represents -18.50 Cum for two sets of cubes.
			203.87	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	213.69			
14	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/04/2021. For R/w at Cucholim bridge at thrust bl. Ch.0-9.50m. 2 nd lift.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.82	----- do -----
			226.53	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	234.83			

Junior Engineer

Assistant Engineer

REPORT PAGE 03 OF 03

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 15/04/2021. PCC for encasing pipe in nallah at Cucholim bridge.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 12.50 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2 :4 , cast on 15/04/2021. PCC for encasing pipe in nallah at Cucholim bridge.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			217.47	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	230.30	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD III , WDVIII , 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.

Junior Engineer

Assistant Engineer