

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 5202 to 5205,5212 to 5214,5223 to 5225,/Lab/ **152** / 2022 - 23 Dated:- 04/08/2022. Laboratory : Bicholim - Goa.
5240,5241,5265,5266,5285,5286,5303,5304,5305,5306 & 5307 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : "Flood Mitigation measures and construction of flood water pumping station at Mala, Panaji - Goa".

Ref. to Requisition No.: SDIV/WDI/WRD/F.38/22-23/253 Dt.:- 30/06/2022

Qty. Recived. : 21 Sets of cube Date of Receipt:- 01/07/2022. Tested on: 02,03,04,06,09,14 & 27/07/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4 & M-30** O.S No. :9154 to 9157,9164 to 9166,9175 to 9177,9192,9193,9217,9218,9237,9238,9259 to 9263/SS

Lab. Sample No.: **5107 to 5172** Tested By: Mrs. S. B. Naik Shirodkar J.E.

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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 04/06/2022. For Drain wall.	28 th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/cm ²	17.58	Qty represents - 6.00 M3 for two sets of cubes.
			237.85	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	246.91	Kg/Cm²			
2	Cement concrete cube of mix 1:2:4 , cast on 04/06/2022. For Drain wall.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	16.86	----- do -----
			244.65	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	245.40	Kg/Cm²			
3	Cement concrete cube of mix M-30 , cast on 04/06/2022. For 2 nd Intake Well 3 rd lift.	28 th day compressive strength	360.18	Kg/Cm ²	345.00 Kg/cm ²	3.30	Qty represents - 12.00 M3 for two sets of cubes.
			344.32	Kg/Cm ²			
			364.71	Kg/Cm ²			
		Average	356.40	Kg/Cm²			
4	Cement concrete cube of mix M-30 , cast on 04/06/2022. For 2 nd Intake Well 3 rd lift.	28 th day compressive strength	330.73	Kg/Cm ²	345.00 Kg/cm ²	1.33	----- do -----
			362.44	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	349.61	Kg/Cm²			
5	Cement concrete cube of mix M-30 , cast on 05/06/2022. For 1 st Intake Well Raft.	28 th day compressive strength	380.56	Kg/Cm ²	345.00 Kg/cm ²	9.00	Qty represents - 20.00 M3 for three sets of cubes.
			385.09	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	376.03	Kg/Cm²			
6	Cement concrete cube of mix M-30 , cast on 05/06/2022. For 1 st Intake Well Raft.	28 th day compressive strength	335.26	Kg/Cm ²	345.00 Kg/cm ²	1.55	----- do -----
			366.97	Kg/Cm ²			
			348.85	Kg/Cm ²			
		Average	350.36	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
7	Cement concrete cube of mix M-30 , cast on 05/06/2022. For 1 st Intake Well Raft.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 20.00 M3 for three sets of cubes.
			337.52	Kg/Cm ²			
			378.30	Kg/Cm ²			
			Average	353.38			
8	Cement concrete cube of mix M-30 , cast on 06/06/2022. For 2 nd Intake Well 4 th lift & Staircase 1 st flight.	28 th day compressive strength	330.73	Kg/Cm ²	345.00 Kg/cm ²	2.21	Qty represents - 14.00 M3 for three sets of cubes.
			357.91	Kg/Cm ²			
			369.24	Kg/Cm ²			
			Average	352.63			
9	Cement concrete cube of mix M-30 , cast on 06/06/2022. For 2 nd Intake Well 4 th lift & Staircase 1 st flight.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	5.27	----- do -----
			360.18	Kg/Cm ²			
			366.97	Kg/Cm ²			
			Average	363.20			
10	Cement concrete cube of mix M-30 , cast on 06/06/2022. For 2 nd Intake Well 4 th lift & Staircase 1 st flight.	28 th day compressive strength	328.46	Kg/Cm ²	345.00 Kg/cm ²	2.65	----- do -----
			376.03	Kg/Cm ²			
			357.91	Kg/Cm ²			
			Average	354.14			
11	Cement concrete cube of mix M-30 , cast on 08/06/2022. For 2 nd Intake Well 5 th lift.	28 th day compressive strength	328.46	Kg/Cm ²	345.00 Kg/cm ²	2.87	Qty represents - 12.00 M3 for two sets of cubes.
			353.38	Kg/Cm ²			
			382.83	Kg/Cm ²			
			Average	354.89			
12	Cement concrete cube of mix M-30 , cast on 08/06/2022. For 2 nd Intake Well 5 th lift.	28 th day compressive strength	342.05	Kg/Cm ²	345.00 Kg/cm ²	2.43	----- do -----
			371.50	Kg/Cm ²			
			346.59	Kg/Cm ²			
			Average	353.38			
13	Cement concrete cube of mix 1:2:4 , cast on 11/06/2022. For 2 nd Intake Well Raft.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 12.00 M3 for two sets of cubes.
			219.73	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	216.71			
14	Cement concrete cube of mix 1:2:4 , cast on 11/06/2022. For 2 nd Intake Well Raft.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			231.06	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	223.51			
15	Cement concrete cube of mix M-30 , cast on 16/06/2022. For 2 nd Intake Well Raft.	28 th day compressive strength	373.77	Kg/Cm ²	345.00 Kg/cm ²	3.52	Qty represents - 12.00 M3 for two sets of cubes.
			360.18	Kg/Cm ²			
			337.52	Kg/Cm ²			
			Average	357.16			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
16	Cement concrete cube of mix M-30 , cast on 16/06/2022. For 2 nd Intake Well Raft.	28 th day compressive strength	353.38	Kg/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 12.00 M3 for two sets of cubes.
			366.97	Kg/Cm ²			
			339.79	Kg/Cm ²			
			Average	353.38			
17	Cement concrete cube of mix M-30 , cast on 29/06/2022. For Slab & floor Beam Pump house.	28 th day compressive strength	332.99	Kg/Cm ²	345.00 Kg/cm ²	2.87	Qty represents - 60.00 M3 for five sets of cubes.
			362.44	Kg/Cm ²			
			369.24	Kg/Cm ²			
			Average	354.89			
18	Cement concrete cube of mix M-30 , cast on 29/06/2022. For Slab & floor Beam Pump house.	28 th day compressive strength	385.09	Kg/Cm ²	345.00 Kg/cm ²	3.96	----- do -----
			335.26	Kg/Cm ²			
			355.65	Kg/Cm ²			
			Average	358.67			
19	Cement concrete cube of mix M-30 , cast on 29/06/2022. For Slab & floor Beam Pump house.	28 th day compressive strength	371.50	Kg/Cm ²	345.00 Kg/cm ²	12.72	----- do -----
			389.63	Kg/Cm ²			
			405.48	Kg/Cm ²			
			Average	388.87			
20	Cement concrete cube of mix M-30 , cast on 29/06/2022. For Slab & floor Beam Pump house.	28 th day compressive strength	385.09	Kg/Cm ²	345.00 Kg/cm ²	7.90	----- do -----
			360.18	Kg/Cm ²			
			371.50	Kg/Cm ²			
			Average	372.26			
21	Cement concrete cube of mix M-30 , cast on 29/06/2022. For Slab & floor Beam Pump house.	28 th day compressive strength	376.03	Kg/Cm ²	345.00 Kg/cm ²	8.12	----- do -----
			380.56	Kg/Cm ²			
			362.44	Kg/Cm ²			
			Average	373.01			

Copy to: 1. The Assistant Engineer , SD IV , WDI, WRD, Porvorim - Goa.

2. Copy submitted to The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. Copy submitted to The Executive Engineer , WDI ,WRD, Porvorim - Goa.

4. QC Lab File. 5. Bill File.

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