

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 4247,4248,4321,4322,4385,4386,/Lab/105/ 2022 - 23 Dated:- 03/06/2022. Laboratory : Bicholim - Goa.
4466,4467,4545,4546,4564,4565,4566,4605 to 4609,4630,4631,4673,4674,4684 to 4688,4715 to 4716 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.38/22-23/77 Dt.:- 04/ 05/ 2022

Qty. Recived. : 29 Sets of cube Date of Receipt:- 04/05/2022. Tested on: 04,06,10,14,18,21,23,26,27, & 30/05/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M-30** O.S No. :0535,0536,0610,0611,0674,0675,0756 & 0757/R.K. , 8500,8501,8519 to 8521,8563 to 8567,8588,8589,8635,8636,8647 to 8651,8679 & 8680/SS Lab. Sample No.: 4238 to 4266 Tested By: Mrs. R. R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.

REPORT PAGE 01 OF 04

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix M-30 , cast on 06/04/2022. For Cutting Edge.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	4.18	Qty represents - 10.00 M3 for two sets of cubes.
			371.50	Kg/Cm ²			
			362.44	Kg/Cm ²			
			Average	359.42			
2	Cement concrete cube of mix M-30 , cast on 06/04/2022. For Cutting Edge.	28 th day compressive strength	371.50	Kg/Cm ²	345.00 Kg/cm ²	7.68	----- do -----
			378.30	Kg/Cm ²			
			364.71	Kg/Cm ²			
			Average	371.50			
3	Cement concrete cube of mix M-30 , cast on 09/04/2022. For Pile Top Portion.	28 th day compressive strength	364.71	Kg/Cm ²	345.00 Kg/cm ²	3.52	Qty represents - 6.00 M3 for two sets of cubes.
			346.59	Kg/Cm ²			
			360.18	Kg/Cm ²			
			Average	357.16			
4	Cement concrete cube of mix M-30 , cast on 09/04/2022. For Pile Top Portion.	28 th day compressive strength	382.83	Kg/Cm ²	345.00 Kg/cm ²	12.93	----- do -----
			389.63	Kg/Cm ²			
			396.42	Kg/Cm ²			
			Average	389.63			
5	Cement concrete cube of mix M-30 , cast on 12/04/2022. For Intake Well 1 st lift.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	5.06	Qty represents - 12.00 M3 for two sets of cubes.
			357.91	Kg/Cm ²			
			366.97	Kg/Cm ²			
			Average	362.44			
6	Cement concrete cube of mix M-30 , cast on 12/04/2022. For Intake Well 1 st lift.	28 th day compressive strength	376.03	Kg/Cm ²	345.00 Kg/cm ²	7.90	----- do -----
			366.97	Kg/Cm ²			
			373.77	Kg/Cm ²			
			Average	372.26			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 04

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 16/04/2022. For Intake Well 2 nd lift.	28 th day compressive strength	346.59	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			
			364.71	Kg/Cm ²			
		Average	357.16	Kg/Cm²			
8	Cement concrete cube of mix M-30 , cast on 16/04/2022. For Intake Well 2 nd lift.	28 th day compressive strength	353.38	Kg/Cm ²	345.00 Kg/cm ²	4.40	----- do -----
			364.71	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	360.18	Kg/Cm²			
9	Cement concrete cube of mix M-30 , cast on 20/04/2022. For Intake Well 3 rd lift.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	3.74	Qty represents - 12.00 M3 for two sets of cubes.
			369.24	Kg/Cm ²			
			360.18	Kg/Cm ²			
		Average	357.91	Kg/Cm²			
10	Cement concrete cube of mix M-30 , cast on 20/04/2022. For Intake Well 3 rd lift.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	4.62	----- do -----
			364.71	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	360.93	Kg/Cm²			
11	Cement concrete cube of mix M-30 , cast on 20/04/2022. For Plinth Beam upto 300 mm Depth.	28 th day compressive strength	366.97	Kg/Cm ²	345.00 Kg/cm ²	2.65	Qty represents - 30.00 M3 for three sets of cubes.
			337.52	Kg/Cm ²			
			357.91	Kg/Cm ²			
		Average	354.14	Kg/Cm²			
12	Cement concrete cube of mix M-30 , cast on 20/04/2022. For Plinth Beam upto 300 mm Depth.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	2.21	----- do -----
			362.44	Kg/Cm ²			
			351.12	Kg/Cm ²			
		Average	352.63	Kg/Cm²			
13	Cement concrete cube of mix M-30 , cast on 20/04/2022. For Plinth Beam upto 300 mm Depth.	28 th day compressive strength	353.38	Kg/Cm ²	345.00 Kg/cm ²	3.30	----- do -----
			351.12	Kg/Cm ²			
			364.71	Kg/Cm ²			
		Average	356.40	Kg/Cm²			
14	Cement concrete cube of mix 1:2:4 , cast on 23/04/2022. For plinth PCC.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 53.00 M3 for five sets of cubes.
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
15	Cement concrete cube of mix 1:2:4 , cast on 23/04/2022. For plinth PCC.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			244.65	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	230.30	Kg/Cm²			

REPORT PAGE 03 OF 04

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
16	Cement concrete cube of mix 1:2:4 , cast on 23/04/2022. For plinth PCC.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 53.00 M3 for five sets of cubes.
			217.47	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
17	Cement concrete cube of mix 1:2:4 , cast on 23/04/2022. For plinth PCC.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	11.11	----- do -----
			219.73	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4 , cast on 23/04/2022. For plinth PCC.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	4.99	----- do -----
			212.93	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
19	Cement concrete cube of mix M-30 , cast on 25/04/2022. For Intake wall 4 th lift.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	3.09	Qty represents - 12.00 M3 for two sets of cubes.
			362.44	Kg/Cm ²			
			360.18	Kg/Cm ²			
		Average	355.65	Kg/Cm²			
20	Cement concrete cube of mix M-30 , cast on 25/04/2022. For Intake wall 4 th lift.	28 th day compressive strength	353.38	Kg/Cm ²	345.00 Kg/cm ²	2.43	----- do -----
			369.24	Kg/Cm ²			
			337.52	Kg/Cm ²			
		Average	353.38	Kg/Cm²			
21	Cement concrete cube of mix 1:1.5:3 , cast on 28/04/2022. For Delivery line RCC Blocks.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	5.71	Qty represents - 20.00 M3 for two sets of cubes.
			280.89	Kg/Cm ²			
			276.36	Kg/Cm ²			
		Average	280.14	Kg/Cm²			
22	Cement concrete cube of mix 1:1.5:3 , cast on 28/04/2022. For Delivery line RCC Blocks.	28 th day compressive strength	289.95	Kg/Cm ²	265.00 Kg/cm ²	3.72	----- do -----
			271.83	Kg/Cm ²			
			262.77	Kg/Cm ²			
		Average	274.85	Kg/Cm²			
23	Cement concrete cube of mix M-30 , cast on 29/04/2022. For Pump house Raft.	28 th day compressive strength	353.38	Kg/Cm ²	345.00 Kg/cm ²	5.71	Qty represents - 90.00 M3 for five sets of cubes.
			366.97	Kg/Cm ²			
			373.77	Kg/Cm ²			
		Average	364.71	Kg/Cm²			
24	Cement concrete cube of mix M-30 , cast on 29/04/2022. For Pump house Raft.	28 th day compressive strength	371.50	Kg/Cm ²	345.00 Kg/cm ²	3.52	----- do -----
			344.32	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	357.16	Kg/Cm²			

REPORT PAGE 04 OF 04

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
25	Cement concrete cube of mix M-30 , cast on 29/04/2022. For Pump house Raft.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	5.06	Qty represents - 90.00 M3 for five sets of cubes.
			357.91	Kg/Cm ²			
			366.97	Kg/Cm ²			
		Average	362.44	Kg/Cm²			
26	Cement concrete cube of mix M-30 , cast on 29/04/2022. For Pump house Raft.	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	Kg/Cm²			
27	Cement concrete cube of mix M-30 , cast on 29/04/2022. For Pump house Raft.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	3.74	----- do -----
			360.18	Kg/Cm ²			
			369.24	Kg/Cm ²			
		Average	357.91	Kg/Cm²			
28	Cement concrete cube of mix M-30 , cast on 02/05/2022. For Intake well 4 th lift.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	7.46	Qty represents - 12.00 M3 for two sets of cubes.
			373.77	Kg/Cm ²			
			376.03	Kg/Cm ²			
		Average	370.75	Kg/Cm²			
29	Cement concrete cube of mix M-30 , cast on 02/05/2022. For Intake well 4 th lift.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	4.84	----- do -----
			357.91	Kg/Cm ²			
			382.83	Kg/Cm ²			
		Average	361.69	Kg/Cm²			

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.

Junior Engineer

Assistant Engineer