

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :3166,3167,3177,3178,3190,3191,3199,3200,3207,3208,/ Lab /**319** / 2021 - 22 Dated:- 05/03/2022. Laboratory : Bicholim - Goa.
3212,3213,3218,3219,3235,3236,3241,3242,3249,3250,3255,3256,3273,3274,3293,3294,3302,3303,3329 & 3330 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of retaining wall from Foro Manas to Rufino house at Church waddo in V.P. St. Estevam in Cumbharjua Constituency Tiswadi Taluka.

Ref. to Requisition No.: S.D.I/WDI/WRD/F.57/21-22/554 Dt.:- 08/ 02/ 2022

Qty. Recived. : 30 Sets of cube Date of Receipt:- 11/ 02 / 2022. Tested on: 12,14,15,16,17,18,19,22,24,25,26 & 28/02/2022 , 02,03 & 04/03/2022as per due dates. Ref to CPWD

Sample: Cube Mix 1: 2: 4 O.S No. :7641,7642,7652,7653,7669,7670,7681,7682,7693,7694,7699,7700,7710,7711,7731,7732,7738,7739,7746,7747/SS & 127,128/RK & 7759,7760,7782,7783,7791,7792,7800,7801 Lab. Sample No.: 2962 To 2991 Tested By: Mrs.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 15/01/2022. For Foundation & Plinth.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents -35.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	219.73			
2	Cement concrete cube of mix 1:2:4 , cast on 15/01/2022. For Foundation & Plinth.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			228.79	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	227.28			
3	Cement concrete cube of mix 1:2:4 , cast on 17/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents -31.00 Cum for two sets of cubes.
			222.00	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	231.06			
4	Cement concrete cube of mix 1:2:4 , cast on 17/01/2022. For Foundation & Plinth.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	2.48	----- do -----
			219.73	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	215.20			
5	Cement concrete cube of mix 1:2:4 , cast on 18/01/2022. For 1st Lift.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents -35.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	227.28			
6	Cement concrete cube of mix 1:2:4 , cast on 18/01/2022. For 1st Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			219.73	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	228.04			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/01/2022. For 1st Lift.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 32.00 Cum for two sets of cubes.
			212.93	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	223.51			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/01/2022. For 1st Lift.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			233.32	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	227.28			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/01/2022. For Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 35.00 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	226.53			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 20/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.91	----- do -----
			208.40	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	218.22			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/01/2022. For Foundation & Plinth.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	1.04	Qty represents -35.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			203.87	Kg/Cm ²			
			Average	212.18			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.90	----- do -----
			237.85	Kg/Cm ²			
			246.91	Kg/Cm ²			
			Average	237.10			
13	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 30.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	226.53			
14	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/01/2022. For Foundation & Plinth.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	5.71	----- do -----
			215.20	Kg/Cm ²			
			219.73	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 25/01/2022. For Foundation & Plinth.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 34.00 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2 : 4 , cast on 25/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.91	----- do -----
			208.40	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
17	Cement concrete cube of mix 1 : 2 : 4 , cast on 27/01/2022. For 2nd Lift.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 33.00 Cum for two sets of cubes.
			219.73	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
18	Cement concrete cube of mix 1 : 2 : 4 , cast on 27/01/2022. For 2nd Lift.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	3.55	----- do -----
			219.73	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
19	Cement concrete cube of mix 1 : 2 : 4 , cast on 28/01/2022. For 2nd Lift.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents -30.00 Cum for two sets of cubes.
			210.67	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
20	Cement concrete cube of mix 1 : 2 : 4 , cast on 28/01/2022. For 2nd Lift.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	3.55	----- do -----
			226.53	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
21	Cement concrete cube of mix 1 : 2 : 4 , cast on 29/01/2022. For Foundation & Plinth.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents -33.00 Cum for two sets of cubes.
			210.67	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
22	Cement concrete cube of mix 1 : 2 : 4 , cast on 29/01/2022. For Foundation & Plinth.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.99	----- do -----
			215.20	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	220.49	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
23	Cement concrete cube of mix 1 : 2 : 4 , cast on 31/01/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 35.00 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
24	Cement concrete cube of mix 1 : 2 : 4 , cast on 31/01/2022. For Foundation & Plinth.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	10.75	----- do -----
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
25	Cement concrete cube of mix 1 : 2 : 4 , cast on 02/02/2022. For 3rd Lift.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 30.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
26	Cement concrete cube of mix 1 : 2 : 4 , cast on 02/02/2022. For 3rd Lift.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			212.93	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
27	Cement concrete cube of mix 1 : 2 : 4 , cast on 03/02/2022. For 3rd Lift.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 36.00 Cum for two sets of cubes.
			226.53	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
28	Cement concrete cube of mix 1 : 2 : 4 , cast on 03/02/2022. For 3rd Lift.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			212.93	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
29	Cement concrete cube of mix 1 : 2 : 4 , cast on 04/02/2022. For 3rd Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 35.00 Cum for two sets of cubes.
			244.65	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
30	Cement concrete cube of mix 1 : 2 : 4 , cast on 04/02/2022. For 3rd Lift.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.87	----- do -----
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	226.53	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD I , WD I , 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 , WD I ,WRD, Porvorim- Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer