

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3917 to 3920,3928 to 3931/ Lab / **52** / 2022 - 23 Dated:- 28/04/2022.
3936 to 3939,3955 to 3958,3971 to 3974,4002 to 4005,4018 to 4021,4024 to 4027,
4034 to 4037,4050 to 4053, 4078 to 4081, 4098 to 4101.

Laboratory : Bicholim - Goa.
Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Strengthening to the bund "Corlim Khazan" (Mayem Khazan)" at Corlim in Tiswadi Taluka.

Ref. to Requisition No.: 3-Tech/F.4(Tis)/04/SCD/D.Agr/2022-23/19 Dated :- 08/04/ 2022.

Qty. Recived. : 48 Sets of cube Date of Receipt:- 12/ 04 / 2022. Tested on: 12,13,14,16,18,19,20,21,22,23,25 & 26/04/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC **1:2:4** O.S No. :8147 & 8150,8163 to 8166,8174 to 8177,8197 to 8200,8216 to 8219,8251 to 8254,8269 to 8272,8276 to 8279,8289 to 8292,8309 to 8312,8340 to 8343,8361 to 8364/SS Lab. Sample No.: 3804 to 3851 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 15/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 72.00 M3 for four sets of cubes.
			233.32	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	224.26			
2	Cement concrete cube of mix 1:2:4 , cast on 15/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	12.54	----- do -----
			226.53	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	236.34			
3	Cement concrete cube of mix 1:2:4 , cast on 15/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	7.15	----- do -----
			212.93	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	225.02			
4	Cement concrete cube of mix 1:2:4 , cast on 15/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	215.20	Kg/Cm ²	210.00 Kg/cm ²	8.95	----- do -----
			237.85	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	228.79			
5	Cement concrete cube of mix 1:2:4 , cast on 16/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 72.00 M3 for four sets of cubes.
			226.53	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	226.53			
6	Cement concrete cube of mix 1:2:4 , cast on 16/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	244.65	Kg/Cm ²	210.00 Kg/cm ²	12.54	----- do -----
			226.53	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	236.34			

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 16/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 72.00 M3 for four sets of cubes.
			215.20	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4 , cast on 16/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	10.39	----- do -----
			226.53	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4 , cast on 17/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 72.00 M3 for four sets of cubes.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4 , cast on 17/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.51	----- do -----
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4 , cast on 17/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			219.73	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4 , cast on 17/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	10.75	----- do -----
			240.12	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
13	Cement concrete cube of mix 1:2:4 , cast on 19/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 36.00 M3 for two sets of cubes.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
14	Cement concrete cube of mix 1:2:4 , cast on 19/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			244.65	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
15	Cement concrete cube of mix 1:2:4 , cast on 19/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 29.00 M3 for two sets of cubes.
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	237.85	Kg/Cm²			

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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 19/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	233.32	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents - 29.00 M3 for two sets of cubes.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	232.57			
17	Cement concrete cube of mix 1:2:4 , cast on 21/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	231.06	Kg/Cm ²	210.00 Kg/cm ²	12.54	Qty represents - 72.00 M3 for four sets of cubes.
			240.12	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	236.34			
18	Cement concrete cube of mix 1:2:4 , cast on 21/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	235.59	Kg/Cm ²	210.00 Kg/cm ²	10.03	----- do -----
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	231.06			
19	Cement concrete cube of mix 1:2:4 , cast on 21/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	219.73	Kg/Cm ²	210.00 Kg/cm ²	7.51	----- do -----
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	225.77			
20	Cement concrete cube of mix 1:2:4 , cast on 21/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	212.93	Kg/Cm ²	210.00 Kg/cm ²	3.20	----- do -----
			226.53	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	216.71			
21	Cement concrete cube of mix 1:2:4 , cast on 22/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	215.20	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 29.00 M3 for four sets of cubes.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	228.04			
22	Cement concrete cube of mix 1:2:4 , cast on 22/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.99	----- do -----
			215.20	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	220.49			
23	Cement concrete cube of mix 1:2:4 , cast on 22/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.03	----- do -----
			217.47	Kg/Cm ²			
			249.18	Kg/Cm ²			
			Average	231.06			
24	Cement concrete cube of mix 1:2:4 , cast on 22/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.18	----- do -----
			244.65	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	235.59			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
25	Cement concrete cube of mix 1:2:4 , cast on 23/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 72.00 M3 for four sets of cubes.
			217.47	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 23/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	237.85	Kg/Cm ²	210.00 Kg/cm ²	11.47	----- do -----
			233.32	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4 , cast on 23/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	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	Kg/Cm²			
28	Cement concrete cube of mix 1:2:4 , cast on 23/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.79	----- do -----
			226.53	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
29	Cement concrete cube of mix 1:2:4 , cast on 24/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 72.00 M3 for four sets of cubes.
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
30	Cement concrete cube of mix 1:2:4 , cast on 24/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	212.93	Kg/Cm ²	210.00 Kg/cm ²	5.71	----- do -----
			215.20	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
31	Cement concrete cube of mix 1:2:4 , cast on 24/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	222.00	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			219.73	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
32	Cement concrete cube of mix 1:2:4 , cast on 24/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	208.40	Kg/Cm ²	210.00 Kg/cm ²	6.07	----- do -----
			237.85	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
33	Cement concrete cube of mix 1:2:4 , cast on 25/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	244.65	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents - 36.00 M3 for two sets of cubes.
			226.53	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	232.57	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
34	Cement concrete cube of mix 1:2:4 , cast on 25/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents - 36.00 M3 for two sets of cubes.
			249.18	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	231.06	Kg/Cm²			
35	Cement concrete cube of mix 1:2:4 , cast on 25/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 29.00 M3 for two sets of cubes.
			242.38	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
36	Cement concrete cube of mix 1:2:4 , cast on 25/03/2022. PCC for ret. Wall 1st step top.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	5.71	----- do -----
			215.20	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
37	Cement concrete cube of mix 1:2:4 , cast on 26/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	210.67	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 72.00 M3 for four sets of cubes.
			212.93	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
38	Cement concrete cube of mix 1:2:4 , cast on 26/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	224.26	Kg/Cm ²	210.00 Kg/cm ²	5.71	----- do -----
			208.40	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
39	Cement concrete cube of mix 1:2:4 , cast on 26/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.39	----- do -----
			235.59	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
40	Cement concrete cube of mix 1:2:4 , cast on 26/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	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	Kg/Cm²			
41	Cement concrete cube of mix 1:2:4 , cast on 28/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	231.06	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 72.00 M3 for four sets of cubes.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
42	Cement concrete cube of mix 1:2:4 , cast on 28/03/2022. PCC for ret. Wall foundation.	28 th day compressive strenath	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.07	----- do -----
			219.73	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	222.75	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
43	Cement concrete cube of mix 1:2:4 , cast on 28/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents - 72.00 M3 for four sets of cubes.
			235.59	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	234.83	Kg/Cm²			
44	Cement concrete cube of mix 1:2:4 , cast on 28/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			231.06	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	227.28	Kg/Cm²			
45	Cement concrete cube of mix 1:2:4 , cast on 29/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 72.00 M3 for four sets of cubes.
			217.47	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
46	Cement concrete cube of mix 1:2:4 , cast on 29/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	12.18	----- do -----
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	235.59	Kg/Cm²			
47	Cement concrete cube of mix 1:2:4 , cast on 29/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	13.26	----- do -----
			237.85	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
48	Cement concrete cube of mix 1:2:4 , cast on 29/03/2022. PCC for ret. Wall foundation.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	11.11	----- do -----
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	233.32	Kg/Cm²			

Copy to: 1. The Assistant Engineer , o/o The Executive Engineer, Soil Conservation Division, Directorate of Agriculture, Krishi Bhavan, Tonca Caranzalem - Goa.

2. QC Lab File. 3. Bill File.

Junior Engineer

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