

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 4143 to 4146,4166 to 4168,4195 to 4197,/ Lab / **75** / 2022 - 23 Dated:- 16/05/2022. Laboratory : Bicholim - Goa.
4209 to 4211,4234,4235,4254,4255,4280 to 4282,4305 to 4307,4335,4336,4349,4350. Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Stabilization of hillslope by Construction of retaining wall behind Hotel Manoshanti at Panaji.

Ref. to Requisition No.: SDIV/WDI/WRD/F.38/22-23/69 Dt.:- 29/ 04/ 2022

Qty. Recived. : 27 Sets of cube Date of Receipt:- 29/ 04 / 2022. Tested on:29 & 30/04/2022 ,02,03,04,05,06,07,08 & 09/05/2022as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** & **1:1.5:3** O.S No. :8413 to 8416,8439 to 8441,8452 to 8454/SS, 497 to 499,0522,0523,0542,0543,0569,0570,0571,0594 to 0596,0624,0625,0638 & 0639/R.K Lab. Sample No.: 4069 to 4095 Tested By: Mrs. R. R. Kadam A.E. & 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 01/04/2022. For Foundation & Plinth.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 35.00 M3 for four sets of cubes.
			233.32	Kg/Cm ²			
			222.00	Kg/Cm ²			
			Average	225.02			
2	Cement concrete cube of mix 1:2:4 , cast on 01/04/2022. For Foundation & Plinth.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			219.73	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	223.51			
3	Cement concrete cube of mix 1:2:4 , cast on 01/04/2022. For Foundation & Plinth.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	227.28			
4	Cement concrete cube of mix 1:2:4 , cast on 01/04/2022. For Foundation & Plinth.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	14.70	----- do -----
			235.59	Kg/Cm ²			
			249.18	Kg/Cm ²			
			Average	240.87			
5	Cement concrete cube of mix 1:2:4 , cast on 02/04/2022. For Foundation & Plinth.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.47	Qty represents -30.00 M3 for three sets of cubes.
			222.00	Kg/Cm ²			
			246.91	Kg/Cm ²			
			Average	234.08			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix 1:2:4 , cast on 02/04/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents -30.00 M3 for three sets of cubes.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4 , cast on 02/04/2022. For Foundation & Plinth.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	10.39	----- do -----
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4 , cast on 04/04/2022. For Foundation & Plinth.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents -20.00 M3 for three sets of cubes.
			233.32	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4 , cast on 04/04/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.43	----- do -----
			219.73	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4 , cast on 04/04/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.27	----- do -----
			212.93	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
11	Cement concrete cube of mix 1:1.5:3 , cast on 05/04/2022. For Foundation & Plinth.	28 th day compressive strength	274.10	Kg/Cm ²	265.00 Kg/cm ²	6.00	Qty represents -30.00 M3 for three sets of cubes.
			280.89	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	280.89	Kg/Cm²			
12	Cement concrete cube of mix 1:1.5:3 , cast on 05/04/2022. For Foundation & Plinth.	28 th day compressive strength	267.30	Kg/Cm ²	265.00 Kg/cm ²	5.14	----- do -----
			283.16	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	278.63	Kg/Cm²			
13	Cement concrete cube of mix 1:1.5:3 , cast on 05/04/2022. For Foundation & Plinth.	28 th day compressive strength	278.63	Kg/Cm ²	265.00 Kg/cm ²	6.00	----- do -----
			289.95	Kg/Cm ²			
			274.10	Kg/Cm ²			
		Average	280.89	Kg/Cm²			
14	Cement concrete cube of mix 1:1.5:3 , cast on 06/04/2022. For Foundation & Plinth.	28 th day compressive strength	283.16	Kg/Cm ²	265.00 Kg/cm ²	7.99	Qty represents - 8.00 M3 for two sets of cubes.
			289.95	Kg/Cm ²			
			285.42	Kg/Cm ²			
		Average	286.18	Kg/Cm²			

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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 1:1.5:3 , cast on 06/04/2022. For Foundation & Plinth.	28 th day compressive strength	269.57	Kg/Cm ²	265.00 Kg/cm ²	4.86	Qty represents - 8.00 M3 for two sets of cubes.
			285.42	Kg/Cm ²			
			278.63	Kg/Cm ²			
		Average	277.87	Kg/Cm²			
16	Cement concrete cube of mix 1:1.5:3 , cast on 07/04/2022. For Foundation & Plinth.	28 th day compressive strength	276.36	Kg/Cm ²	265.00 Kg/cm ²	4.29	Qty represents - 7.00 M3.
			269.57	Kg/Cm ²			
			283.16	Kg/Cm ²			
		Average	276.36	Kg/Cm²			
17	Cement concrete cube of mix 1:1.5:3 , cast on 07/04/2022. For Foundation & Plinth.	28 th day compressive strength	280.89	Kg/Cm ²	265.00 Kg/cm ²	7.99	Qty represents - 5.00 M3.
			287.69	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	286.18	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4 , cast on 08/04/2022. For Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 15.00 M3 for two sets of cubes.
			226.53	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
19	Cement concrete cube of mix 1:2:4 , cast on 08/04/2022. For Foundation & Plinth.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			224.26	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
20	Cement concrete cube of mix 1:1.5:3 , cast on 08/04/2022. For Foundation & Plinth.	28 th day compressive strength	274.10	Kg/Cm ²	265.00 Kg/cm ²	3.72	Qty represents - 5.00 M3.
			269.57	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	274.85	Kg/Cm²			
21	Cement concrete cube of mix 1:2:4 , cast on 09/04/2022. For Foundation & Plinth.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 10.00 M3 for two sets of cubes.
			224.26	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
22	Cement concrete cube of mix 1:2:4 , cast on 09/04/2022. For Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	5.35	----- do -----
			222.00	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
23	Cement concrete cube of mix 1:1.5:3 , cast on 09/04/2022. For Foundation & Plinth.	28 th day compressive strength	285.42	Kg/Cm ²	265.00 Kg/cm ²	7.71	Qty represents - 3.00 M3.
			278.63	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	285.42	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
24	Cement concrete cube of mix 1:2:4 , cast on 10/04/2022. For Foundation & Plinth.	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 10.00 M3 for two sets of cubes.
			226.53	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4 , cast on 10/04/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			210.67	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 11/04/2022. For Foundation & Plinth.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 7.00 M3 for two sets of cubes.
			233.32	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4 , cast on 11/04/2022. For Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.59	----- do -----
			233.32	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	228.04	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