

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 6758,6759,6807,6808,6829,6830,6853,6854/ Lab / **197** /2019 - 20 Dated:- 18/06 / 2019 Laboratory : Bicholim- Goa.
6855,6885,6886,7087,7088,7138, 7139,7191,7305,7306,7307 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of Work: - Stabilization of Hillslope by construction of retaining wall behind Hotel Manoshanti at Panaji, Tiswadi –Goa.

Ref. to Requisition no.: MI/SDIV/WDI/WRD/ F.38 /2019-20/68 dated :-22/05/2019.

Qty. Recived. : 18 Sets of cube Date of Receipt: 22/05/2019. Tested on: 22/05/2019 To 17/06/2019. as per due dates. Ref to CPWD :2002, Vol. I

Sample: Cube **1:2:4 & 1:1.5:3** Mix O.S No. :721,722,770,771/AF,494,495/SP,792,793,794/AF,529,530/SP,2154,2155,2188,2189,2227,2260,2261,2262/SS

Lab. Sample No.: 4821 to 4839 Tested By: Mr. Anil. R. Fadte. J.E., Mr. S.M.Patri. A.E & Mrs. S.B. Naik Shirodkar. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix 1:2:4 cast on 24/04/2019 for Foundation & Plinth.	28 th day	260.51	Kg/Cm2	210.00 Kg/Cm ²	24.41	Quantity represents 7.50 Cum for two sets of cubes.
		compressive strength	251.44	Kg/Cm2			
			271.83	Kg/Cm2			
		Average	261.26	Kg/Cm2			
2	Cement concrete cube of mix 1:2:4 cast on 24/04/2019 for Foundation & Plinth.	28 th day	253.71	Kg/Cm2	210.00 Kg/Cm ²	23.69	... Do ...
		compressive strength	260.51	Kg/Cm2			
			265.04	Kg/Cm2			
		Average	259.75	Kg/Cm2			
3	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 28/04/2019 for Raft.	28 th day	332.99	Kg/Cm2	265.00 Kg/Cm ²	16.25	Quantity represents 15.00 Cum for two sets of cubes.
		compressive strength	280.89	Kg/Cm2			
			310.34	Kg/Cm2			
		Average	308.08	Kg/Cm2			
4	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 28/04/2019 for Raft.	28 th day	330.73	Kg/Cm2	265.00 Kg/Cm ²	20.81	... Do ...
		compressive strength	317.14	Kg/Cm2			
			312.61	Kg/Cm2			
		Average	320.16	Kg/Cm2			
5	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 29/04/2019 for Raft.	28 th day	344.32	Kg/Cm2	265.00 Kg/Cm ²	19.96	Quantity represents 15.00 Cum for two sets of cubes.
		compressive strength	339.79	Kg/Cm2			
			269.57	Kg/Cm2			
		Average	317.89	Kg/Cm2			
6	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 29/04/2019 for Raft.	28 th day	310.34	Kg/Cm2	265.00 Kg/Cm ²	22.81	... Do ...
		compressive strength	321.67	Kg/Cm2			
			344.32	Kg/Cm2			
		Average	325.44	Kg/Cm2			

Junior Engineer

Assistant Engineer

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
7	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 30/04/2019 for 1 st step, stem	28 th day	305.81	Kg/Cm2	265.00 Kg/Cm ²	9.13	Quantity represents 10.00 Cum for two sets of cubes.
		compressive	274.10	Kg/Cm2			
		strength	287.69	Kg/Cm2			
		Average	289.20	Kg/Cm2			
8	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 30/04/2019 for 1 st step, stem	28 th day	280.89	Kg/Cm2	265.00 Kg/Cm ²	7.14	... Do ...
		compressive	255.97	Kg/Cm2			
		strength	314.87	Kg/Cm2			
		Average	283.91	Kg/Cm2			
9	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 30/04/2019 for 1 st step, stem	28 th day	332.99	Kg/Cm2	265.00 Kg/Cm ²	26.23	Cube casted during site inspection in the presence of AE - V, QC, and Shri. Tarkar JE, SDIV,WDI,WRD, Porvorim - Goa. on 30/04/2019
		compressive	344.32	Kg/Cm2			
		strength	326.20	Kg/Cm2			
		Average	334.50	Kg/Cm2			
10	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 03/05/2019 for 1 st step, stem	28 th day	335.26	Kg/Cm2	265.00 Kg/Cm ²	26.80	Quantity represents 7.50 Cum for two sets of cubes.
		compressive	342.05	Kg/Cm2			
		strength	330.73	Kg/Cm2			
		Average	336.01	Kg/Cm2			
11	Reinforced Cement concrete cube of mix 1:1.5:3 cast on 03/05/2019 for 1 st step, stem	28 th day	299.01	Kg/Cm2	265.00 Kg/Cm ²	21.95	... Do ...
		compressive	342.05	Kg/Cm2			
		strength	328.46	Kg/Cm2			
		Average	323.18	Kg/Cm2			
12	Cement concrete cube of mix 1:2:4 cast on 11/05/2019 for Foundation & Plinth.	28 th day	249.18	Kg/Cm2	210.00 Kg/Cm ²	20.81	Quantity represents 15.00 Cum for two sets of cubes.
		compressive	271.83	Kg/Cm2			
		strength	240.12	Kg/Cm2			
		Average	253.71	Kg/Cm2			
13	Cement concrete cube of mix 1:2:4 cast on 11/05/2019 for Foundation & Plinth.	28 th day	231.06	Kg/Cm2	210.00 Kg/Cm ²	17.22	... Do ...
		compressive	258.24	Kg/Cm2			
		strength	249.18	Kg/Cm2			
		Average	246.16	Kg/Cm2			
14	Cement concrete cube of mix 1:2:4 cast on 13/05/2019 for Foundation & Plinth.	28 th day	249.18	Kg/Cm2	210.00 Kg/Cm ²	19.02	Quantity represents 15.00 Cum for two sets of cubes.
		compressive	260.51	Kg/Cm2			
		strength	240.12	Kg/Cm2			
		Average	249.93	Kg/Cm2			
15	Cement concrete cube of mix 1:2:4 cast on 13/05/2019 for Foundation & Plinth.	28 th day	246.91	Kg/Cm2	210.00 Kg/Cm ²	20.09	... Do ...
		compressive	271.83	Kg/Cm2			
		strength	237.85	Kg/Cm2			
		Average	252.20	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 15/05/2019 for 1st step, wall.	28 th day compressive strength	260.51	Kg/Cm2	210.00 Kg/Cm ²	24.05	Quantity represents 05.00 Cum.
			249.18	Kg/Cm2			
			271.83	Kg/Cm2			
		Average	260.51	Kg/Cm2			
17	Cement concrete cube of mix 1:2:4 cast on 20/05/2019 for 1st step, wall.	28 th day compressive strength	265.04	Kg/Cm2	210.00 Kg/Cm ²	9.67	Quantity represents 17.50 Cum for three sets of cubes.
			224.26	Kg/Cm2			
			201.61	Kg/Cm2			
		Average	230.30	Kg/Cm2			
18	Cement concrete cube of mix 1:2:4 cast on 20/05/2019 for 1st step, wall.	28 th day compressive strength	217.47	Kg/Cm2	210.00 Kg/Cm ²	5.71	... Do ...
			212.93	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	222.00	Kg/Cm2			
19	Cement concrete cube of mix 1:2:4 cast on 20/05/2019 for 1st step, wall.	28 th day compressive strength	233.32	Kg/Cm2	210.00 Kg/Cm ²	12.54	... Do ...
			217.47	Kg/Cm2			
			258.24	Kg/Cm2			
		Average	236.34	Kg/Cm2			

Copy to: 1. The Assistant Engineer ,SD IV,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