

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

**Test Report No: WRD/QC/F.6-2/Cube -T : 7145,7146,7158,7159,7169,7170,7182,7183,7222/Lab/119/2023 - 24 Dated:- 01/07/2023. Laboratory : Bicholim - Goa.
7223,7237,7238,7252,7253,7270,7271,7283,7284,7300,7301,7321,7322,7330,7331,7347,7348,7355,7356,7375,7376,7399,7400. Sub Division V (QC)/WRD/ Bicholim- Goa.**

Name of work : Anti Sea Erosion wall from Crematorium to Sunset Point Shack Huddo at Gudem Dando in V.P. Marna-Siolim in Siolim Constituency.

Ref. to Requisition No : SDI/WDI/WRD/F.57/2023-24/67 Dt :- 30/05/2023

Qty. Recived : **32** Sets of cube Date of Receipt:- 05/06/2023.

Tested on: 06,07,08,09,13,14,15,16,17,19,20,21,22,23,24 & 26/06/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** O.S No: 1443,1444,1456,1457,1467,1468,1480,1481,1519,1520/RK. & Lab. Sample No: 7330 to 7361

845,846,860,861,877,878,896,897,909,910,927,928,949,950,958,959,967,968,990,991,1015,1016/SS. 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 permissable	% above or below	REMARK
1	Cement concrete cube of mix 1:2:4 , cast on 09/05/2023. for Foundation & Plinth.	28 th day compressive strength	226.53	Kq/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 44.00 M3 for two sets of cube.
			206.14	Kq/Cm ²			
			222.00	Kq/Cm ²			
			Average	218.22			
2	Cement concrete cube of mix 1:2:4 , cast on 09/05/2023. for Foundation & Plinth.	28 th day compressive strength	210.67	Kq/Cm ²	210.00 Kg/cm ²	5.71	---do---
			219.73	Kq/Cm ²			
			235.59	Kq/Cm ²			
			Average	222.00			
3	Cement concrete cube of mix 1:2:4 , cast on 10/05/2023. for Foundation & Plinth.	28 th day compressive strength	224.26	Kq/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 46.00 M3 for two sets of cube.
			233.32	Kq/Cm ²			
			208.40	Kq/Cm ²			
			Average	222.00			
4	Cement concrete cube of mix 1:2:4 , cast on 10/05/2023. for Foundation & Plinth.	28 th day compressive strength	203.87	Kq/Cm ²	210.00 Kg/cm ²	4.99	---do---
			231.06	Kq/Cm ²			
			226.53	Kq/Cm ²			
			Average	220.49			
5	Cement concrete cube of mix 1:2:4 , cast on 11/05/2023. for Foundation & Plinth.	28 th day compressive strength	215.20	Kq/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 45.00 M3 for two sets of cube.
			228.79	Kq/Cm ²			
			237.85	Kq/Cm ²			
			Average	227.28			

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 11/05/2023. for Foundation & Plinth.	28 th day compressive strength	201.61	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 45.00 M3 for two sets of cube.
			235.59	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4 , cast on 12/05/2023. for Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 43.00 M3 for two sets of cube.
			210.67	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4 , cast on 12/05/2023. for Foundation & Plinth.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	5.71	---do---
			228.79	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4 , cast on 16/05/2023. for Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 45.00 M3 for two sets of cube.
			219.73	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4 , cast on 16/05/2023. for Foundation & Plinth.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	9.31	---do---
			249.18	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4 , cast on 17/05/2023. for 1st Lift.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 46.00 M3 for two sets of cube.
			233.32	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4 , cast on 17/05/2023. for 1st Lift.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	4.63	---do---
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
13	Cement concrete cube of mix 1:2:4 , cast on 18/05/2023. for Foundation & 1st Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 45.00 M3 for two sets of cube.
			215.20	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	224.26	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
14	Cement concrete cube of mix 1:2:4 , cast on 18/05/2023. for Foundation & 1st Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 45.00 M3 for two sets of cube.
			237.85	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
15	Cement concrete cube of mix 1:2:4 , cast on 19/05/2023. for Foundation & Plinth.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 46.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
16	Cement concrete cube of mix 1:2:4 , cast on 19/05/2023. for Foundation & Plinth.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	12.54	---do---
			244.65	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
17	Cement concrete cube of mix 1:2:4 , cast on 20/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 45.00 M3 for two sets of cube.
			228.79	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	237.85	Kg/Cm²			
18	Cement concrete cube of mix 1:2:4 , cast on 20/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	6.43	---do---
			219.73	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
19	Cement concrete cube of mix 1:2:4 , cast on 22/05/2023. for Foundation & Plinth.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 48.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
20	Cement concrete cube of mix 1:2:4 , cast on 22/05/2023. for Foundation & Plinth.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	8.95	---do---
			237.85	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
21	Cement concrete cube of mix 1:2:4 , cast on 23/05/2023. for Foundation & Plinth.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 44.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	225.02	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
22	Cement concrete cube of mix 1:2:4 , cast on 23/05/2023. for Foundation & Plinth.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 44.00 M3 for two sets of cube.
			217.47	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
23	Cement concrete cube of mix 1:2:4 , cast on 24/05/2023. for Foundation & Plinth.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 44.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4 , cast on 24/05/2023. for Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	9.31	---do---
			235.59	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4 , cast on 25/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 45.00 M3 for two sets of cube.
			208.40	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 25/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.87	---do---
			235.59	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
27	Cement concrete cube of mix 1:2:4 , cast on 26/05/2023. for Foundation & Plinth.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 46.00 M3 for two sets of cube.
			210.67	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	225.77	Kg/Cm²			
28	Cement concrete cube of mix 1:2:4 , cast on 26/05/2023. for Foundation & Plinth.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	7.87	---do---
			226.53	Kg/Cm ²			
			215.20	Kg/Cm ²			
		Average	226.53	Kg/Cm²			
29	Cement concrete cube of mix 1:2:4 , cast on 27/05/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 46.00 M3 for two sets of cube.
			215.20	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	225.77	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
30	Cement concrete cube of mix 1:2:4 , cast on 27/05/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents - 46.00 M3 for two sets of cube.
			233.32	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	234.83	Kg/Cm²			
31	Cement concrete cube of mix 1:2:4 , cast on 29/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents - 44.00 M3 for two sets of cube.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
32	Cement concrete cube of mix 1:2:4 , cast on 29/05/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	6.79	---do---
			226.53	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	224.26	Kg/Cm²			

Copy to: 1. The Assistant Engineer, SDI, 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.

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