

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

**Test Report No: WRD/QC/F.6-2/Cube -T : 6760,6761,6821,6822,6843,6844,6863,/Lab/71/2023 - 24 Dated:- 24/05/2023. Laboratory : Bicholim - Goa.
6864,6874,6875,6885,6886,6905,6936,6918,6919,6931,6932,6939,6940,6942,6943,6954,6955,6975,6976. 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.57/2023-24/30 Dt.:- 25/04/2023

Qty. Recived : **26** Sets of cube Date of Receipt:- 27/04/2023.

Tested on: 27,29/04/2023 & 03,08,10,11,13,15,16,17,18,19,22/05/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** O.S No: 1155,1156,1182,1183,1199,1200,1216,1217,1224,1225,1227,1228,1239,1240,1260,1261/RK & 744,745,776,777,797,798,809,810,822,823/SS.

Lab. Sample No: 6923 to 6948 Tested By : Mrs. R.R. Kadam A.E & Mrs. S. B. Naik Shirodkar J.E.

Cube test witnessed by Shri Ajaruddin representative by agency I.B Construction On 27/04/2023.

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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 30/03/2023. for Foundation & Plinth.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 33.00 M3 for two sets of cube.
			249.18	Kg/Cm ²			
			260.51	Kg/Cm ²			
			Average	243.14			
2	Cement concrete cube of mix 1:2:4 , cast on 30/03/2023. for Foundation & Plinth.	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	4.99	---do---
			203.87	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	220.49			
3	Cement concrete cube of mix 1:2:4 , cast on 01/04/2023. for Foundation & Plinth.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 31.00 M3 for two sets of cube.
			235.59	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	239.36			
4	Cement concrete cube of mix 1:2:4 , cast on 01/04/2023. for Foundation & Plinth.	28 th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/cm ²	18.30	---do---
			246.91	Kg/Cm ²			
			240.12	Kg/Cm ²			
			Average	248.42			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
5	Cement concrete cube of mix 1:2:4 , cast on 05/04/2023. for Foundation & Plinth.	28 th day compressive strength	265.04	Kg/Cm ²	210.00 Kg/cm ²	20.09	Qty represents - 36.00 M3 for two sets of cube.
			244.65	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	252.20	Kg/Cm²			
6	Cement concrete cube of mix 1:2:4 , cast on 05/04/2023. for Foundation & Plinth.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	15.06	---do---
			244.65	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	241.63	Kg/Cm²			
7	Cement concrete cube of mix 1:2:4 , cast on 10/04/2023. for Foundation & Plinth.	28 th day compressive strength	258.24	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents - 34.00 M3 for two sets of cube.
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
8	Cement concrete cube of mix 1:2:4 , cast on 10/04/2023. for Foundation & Plinth.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	4.27	---do---
			203.87	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
9	Cement concrete cube of mix 1:2:4 , cast on 12/04/2023. for Foundation & Plinth.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	2.12	Qty represents - 36.00 M3 for two sets of cube.
			215.20	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	214.44	Kg/Cm²			
10	Cement concrete cube of mix 1:2:4 , cast on 12/04/2023. for Foundation & Plinth.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	5.71	---do---
			226.53	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	222.00	Kg/Cm²			
11	Cement concrete cube of mix 1:2:4 , cast on 13/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 35.00 M3 for two sets of cube.
			231.06	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
12	Cement concrete cube of mix 1:2:4 , cast on 13/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	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	Kg/Cm²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
13	Cement concrete cube of mix 1:2:4 , cast on 15/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	240.12	Ka/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 33.00 M3 for two sets of cube.
			224.26	Ka/Cm ²			
			203.87	Ka/Cm ²			
			Average	222.75			
14	Cement concrete cube of mix 1:2:4 , cast on 15/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	203.87	Ka/Cm ²	210.00 Kg/cm ²	3.91	---do---
			219.73	Ka/Cm ²			
			231.06	Ka/Cm ²			
			Average	218.22			
15	Cement concrete cube of mix 1:2:4 , cast on 17/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	208.40	Ka/Cm ²	210.00 Kg/cm ²	2.12	Qty represents - 37.00 M3 for two sets of cube.
			210.67	Ka/Cm ²			
			224.26	Ka/Cm ²			
			Average	214.44			
16	Cement concrete cube of mix 1:2:4 , cast on 17/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	233.32	Ka/Cm ²	210.00 Kg/cm ²	9.31	---do---
			228.79	Ka/Cm ²			
			226.53	Ka/Cm ²			
			Average	229.55			
17	Cement concrete cube of mix 1:2:4 , cast on 18/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	215.20	Ka/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 34.00 M3 for two sets of cube.
			206.14	Ka/Cm ²			
			233.32	Ka/Cm ²			
			Average	218.22			
18	Cement concrete cube of mix 1:2:4 , cast on 18/04/2023. for 1st Lift & 2nd Lift.	28 th day compressive strength	231.06	Ka/Cm ²	210.00 Kg/cm ²	2.84	---do---
			192.55	Ka/Cm ²			
			224.26	Ka/Cm ²			
			Average	215.95			
19	Cement concrete cube of mix 1:2:4 , cast on 19/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	265.04	Ka/Cm ²	210.00 Kg/cm ²	17.22	Qty represents - 32.00 M3 for two sets of cube.
			255.97	Ka/Cm ²			
			217.47	Ka/Cm ²			
			Average	246.16			
20	Cement concrete cube of mix 1:2:4 , cast on 19/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	231.06	Ka/Cm ²	210.00 Kg/cm ²	5.35	---do---
			206.14	Ka/Cm ²			
			226.53	Ka/Cm ²			
			Average	221.24			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
21	Cement concrete cube of mix 1:2:4 , cast on 20/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 36.00 M3 for two sets of cube.
			210.67	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
22	Cement concrete cube of mix 1:2:4 , cast on 20/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	6.43	---do---
			233.32	Kg/Cm ²			
			201.61	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
23	Cement concrete cube of mix 1:2:4 , cast on 21/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 35.00 M3 for two sets of cube.
			199.34	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
24	Cement concrete cube of mix 1:2:4 , cast on 21/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	4.27	---do---
			224.26	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
25	Cement concrete cube of mix 1:2:4 , cast on 24/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 33.00 M3 for two sets of cube.
			224.26	Kg/Cm ²			
			201.61	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
26	Cement concrete cube of mix 1:2:4 , cast on 24/04/2023. for 2nd Lift & 3rd Lift.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	1.40	---do---
			215.20	Kg/Cm ²			
			206.14	Kg/Cm ²			
		Average	212.93	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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