

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 7198,7206,7215,7224,7239,7254,7272,7285/Lab/128/2023 - 24 Dated:- 05/07/2023. Laboratory : Bicholim - Goa.
7294,7302,7323,7332,7349,7357,7377,7391,7401,7413,7424,7432,7441,7450,7451,7454,7466,7402. Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Anti Sea erosion and beach protection measures in State of Goa.Reg.Anti Sea erosion and protection measures from Ch.25.00m to 390.00mt at Keri Beach, V.P.Keri Teracol, Pernem Taluka North Goa.

Ref. to Requisition No : MI/SDIII/WDI/F.58/2023-24/65 Dt.:- 06/06/2023

Qty. Recived : 26 Sets of cube Date of Receipt:- 06/06/2023.

Tested on: 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30/06/2023 & 01,02,03,04/07/2023. as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M-30 & 1:1.5:3** O.S No: 1496,1504,1513,1521,1546/RK &

847,862,879,898,911,920,929,951,960,969,992,1006,1017,1536,1030,1038,1047,1056,1057,1060,1018/SS. Lab. Sample No: 7401 to 7426

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 M-30 , cast on 13/05/2023. for 50 Tetrapods.	28 th day compressive strength	385.09	Kg/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 20.85 cum
			321.67	Kg/Cm ²			
			353.38	Kg/Cm ²			
		Average	353.38	Kg/Cm²			
2	Cement concrete cube of mix M-30 , cast on 14/05/2023. for 50 Tetrapods.	28 th day compressive strength	351.12	Kg/Cm ²	345.00 Kg/cm ²	3.52	Qty represents - 20.85 cum
			391.89	Kg/Cm ²			
			328.46	Kg/Cm ²			
		Average	357.16	Kg/Cm²			
3	Cement concrete cube of mix M-30 , cast on 15/05/2023. for 50 Tetrapods.	28 th day compressive strength	355.65	Kg/Cm ²	345.00 Kg/cm ²	1.33	Qty represents - 20.85 cum
			335.26	Kg/Cm ²			
			357.91	Kg/Cm ²			
		Average	349.61	Kg/Cm²			
4	Cement concrete cube of mix M-30 , cast on 16/05/2023. for 50 Tetrapods.	28 th day compressive strength	335.26	Kg/Cm ²	345.00 Kg/cm ²	2.21	Qty represents - 20.85 cum
			360.18	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	352.63	Kg/Cm²			

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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 M-30 , cast on 17/05/2023. for 50 Tetrapods.	28 th day compressive strength	328.46	Kg/Cm ²	345.00 Kg/cm ²	1.12	Qty represents - 20.85 cum
			362.44	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	348.85	Kg/Cm²			
6	Cement concrete cube of mix M-30 , cast on 18/05/2023. for 50 Tetrapods.	28 th day compressive strength	330.73	Kg/Cm ²	345.00 Kg/cm ²	1.77	Qty represents - 20.85 cum
			355.65	Kg/Cm ²			
			366.97	Kg/Cm ²			
		Average	351.12	Kg/Cm²			
7	Cement concrete cube of mix M-30 , cast on 19/05/2023. for 50 Tetrapods.	28 th day compressive strength	355.65	Kg/Cm ²	345.00 Kg/cm ²	2.65	Qty represents - 20.85 cum
			362.44	Kg/Cm ²			
			344.32	Kg/Cm ²			
		Average	354.14	Kg/Cm²			
8	Cement concrete cube of mix M-30 , cast on 20/05/2023. for 50 Tetrapods.	28 th day compressive strength	342.05	Kg/Cm ²	345.00 Kg/cm ²	1.77	Qty represents - 20.85 cum
			353.38	Kg/Cm ²			
			357.91	Kg/Cm ²			
		Average	351.12	Kg/Cm²			
9	Cement concrete cube of mix M-30 , cast on 21/05/2023. for 50 Tetrapods.	28 th day compressive strength	351.12	Kg/Cm ²	345.00 Kg/cm ²	1.33	Qty represents - 20.85 cum
			360.18	Kg/Cm ²			
			337.52	Kg/Cm ²			
		Average	349.61	Kg/Cm²			
10	Cement concrete cube of mix M-30 , cast on 22/05/2023. for 50 Tetrapods.	28 th day compressive strength	360.18	Kg/Cm ²	345.00 Kg/cm ²	1.12	Qty represents - 20.85 cum
			335.26	Kg/Cm ²			
			351.12	Kg/Cm ²			
		Average	348.85	Kg/Cm²			
11	Cement concrete cube of mix M-30 , cast on 23/05/2023. for 50 Tetrapods.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	2.87	Qty represents - 20.85 cum
			355.65	Kg/Cm ²			
			364.71	Kg/Cm ²			
		Average	354.89	Kg/Cm²			
12	Cement concrete cube of mix M-30 , cast on 24/05/2023. for 50 Tetrapods.	28 th day compressive strength	355.65	Kg/Cm ²	345.00 Kg/cm ²	1.55	Qty represents - 20.85 cum
			348.85	Kg/Cm ²			
			346.59	Kg/Cm ²			
		Average	350.36	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 M-30 , cast on 25/05/2023. for 50 Tetrapods.	28 th day compressive strength	346.59	Ka/Cm ²	345.00 Kg/cm ²	1.12	Qty represents - 20.85 cum
			353.38	Ka/Cm ²			
			346.59	Ka/Cm ²			
		Average	348.85	Ka/Cm²			
14	Cement concrete cube of mix M-30 , cast on 26/05/2023. for 50 Tetrapods.	28 th day compressive strength	360.18	Ka/Cm ²	345.00 Kg/cm ²	1.99	Qty represents - 20.85 cum
			339.79	Ka/Cm ²			
			355.65	Ka/Cm ²			
		Average	351.87	Ka/Cm²			
15	Cement concrete cube of mix M-30 , cast on 27/05/2023. for 50 Tetrapods.	28 th day compressive strength	355.65	Ka/Cm ²	345.00 Kg/cm ²	1.12	Qty represents - 20.85 cum
			344.32	Ka/Cm ²			
			346.59	Ka/Cm ²			
		Average	348.85	Ka/Cm²			
16	Cement concrete cube of mix M-30 , cast on 28/05/2023. for 50 Tetrapods.	28 th day compressive strength	344.32	Ka/Cm ²	345.00 Kg/cm ²	1.55	Qty represents - 20.85 cum
			355.65	Ka/Cm ²			
			351.12	Ka/Cm ²			
		Average	350.36	Ka/Cm²			
17	Cement concrete cube of mix M-30 , cast on 29/05/2023. for 50 Tetrapods.	28 th day compressive strength	351.12	Ka/Cm ²	345.00 Kg/cm ²	1.99	Qty represents - 20.85 cum
			362.44	Ka/Cm ²			
			342.05	Ka/Cm ²			
		Average	351.87	Ka/Cm²			
18	Cement concrete cube of mix 1:1.5:3 , cast on 29/05/2023. for 50 Rect Blocks.	28 th day compressive strength	269.57	Ka/Cm ²	265.00 Kg/cm ²	4.00	Qty represents - 21.60 cum
			280.89	Ka/Cm ²			
			276.36	Ka/Cm ²			
		Average	275.61	Ka/Cm²			
19	Cement concrete cube of mix M-30 , cast on 30/05/2023. for 50 Tetrapods.	28 th day compressive strength	337.52	Ka/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 20.85 cum
			353.38	Ka/Cm ²			
			369.24	Ka/Cm ²			
		Average	353.38	Ka/Cm²			
20	Cement concrete cube of mix M-30 , cast on 31/05/2023. for 50 Tetrapods.	28 th day compressive strength	348.85	Ka/Cm ²	345.00 Kg/cm ²	3.74	Qty represents - 20.85 cum
			360.18	Ka/Cm ²			
			364.71	Ka/Cm ²			
		Average	357.91	Ka/Cm²			

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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 M-30 , cast on 01/06/2023. for 50 Tetrapods.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	1.77	Qty represents - 20.85 cum
			348.85	Kg/Cm ²			
			342.05	Kg/Cm ²			
			Average	351.12			
22	Cement concrete cube of mix M-30 , cast on 02/06/2023. for 50 Tetrapods.	28 th day compressive strength	360.18	Kg/Cm ²	345.00 Kg/cm ²	2.65	Qty represents - 20.85 cum
			355.65	Kg/Cm ²			
			346.59	Kg/Cm ²			
			Average	354.14			
23	Cement concrete cube of mix M-30 , cast on 03/06/2023. for 50 Tetrapods.	28 th day compressive strength	344.32	Kg/Cm ²	345.00 Kg/cm ²	1.33	Qty represents - 20.85 cum
			362.44	Kg/Cm ²			
			342.05	Kg/Cm ²			
			Average	349.61			
24	Cement concrete cube of mix M-30 , cast on 04/06/2023. for 50 Tetrapods.	28 th day compressive strength	357.91	Kg/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 20.85 cum
			364.71	Kg/Cm ²			
			337.52	Kg/Cm ²			
			Average	353.38			
25	Cement concrete cube of mix M-30 , cast on 05/06/2023. for 50 Tetrapods.	28 th day compressive strength	355.65	Kg/Cm ²	345.00 Kg/cm ²	2.43	Qty represents - 20.85 cum
			357.91	Kg/Cm ²			
			346.59	Kg/Cm ²			
			Average	353.38			
26	Cement concrete cube of mix M-30 , cast on 06/06/2023. for 50 Tetrapods.	28 th day compressive strength	362.44	Kg/Cm ²	345.00 Kg/cm ²	1.55	Qty represents - 20.85 cum
			353.38	Kg/Cm ²			
			335.26	Kg/Cm ²			
			Average	350.36			

Copy to: 1. The Assistant Engineer, SDIII, WDI, WRD, Pernem - 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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