

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

**Test Report No: WRD/QC/F.6-2/Cube -T : 6281,6288,6289,6297,6302,6304,6313/Lab/310/2022 - 23 Dated:- 15/03/2023. Laboratory : Bicholim - Goa.**  
**6317,6320,6321,6332,6338,6344,6351,6359,6370. Sub Division V (QC)/WRD/ Bicholim- Goa.**

**Name of work : Construction of flood protection wall from Main Road to Sarita Warang house and from Mangesh Bude House to Santosh Pednekar House at Darbarwado at Village Camurlim in Thivim Constituency.**

Ref. to Requisition No : WRD/SDII/WDI/F.24/22-23/405 Dt.:- 24/02/2023

Qty. Recived : 16 Sets of cube Date of Receipt:- 24/02/2023.

Tested on: 24,25,26,27,28/02/2023 & 01,03,04,05,06,07,08,09,10,11,13/03/2023 as per due dates.Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No : 976,979,980,991/RK & 301,305,314,320,324,341,348,355,362,371,379,391/SS.

Lab. Sample No: 6334 to 6349

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 27/01/2023. PCC for Foundation.	28 th day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 19.00 M3
			231.06	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix 1:2:4, cast on 28/01/2023. PCC for Foundation.	28 th day compressive strength	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 20.00 M3
			210.67	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix 1:2:4, cast on 29/01/2023. PCC for Foundation.	28 th day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 18.00 M3
			228.79	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix 1:2:4, cast on 30/01/2023. PCC for Foundation.	28 th day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents - 20.00 M3
			215.20	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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<b>SR. NO</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
5	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/01/2023. PCC for Foundation.	28 th day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.95	Qty represents - 19.00 M3
			215.20	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.79</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>1:2:4</b> , cast on 01/02/2023. PCC for Foundation.	28 th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 18.40 M3
			233.32	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 03/02/2023. PCC for 1st Lift.	28 th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 19.00 M3
			233.32	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 04/02/2023. PCC for 1st Lift.	28 th day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 22.00 M3
			210.67	Kg/Cm <sup>2</sup>			
			240.12	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 05/02/2023. PCC for 1st Lift.	28 th day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 21.00 M3
			235.59	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 06/02/2023. PCC for 1st Lift.	28 th day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	Qty represents - 20.00 M3
			215.20	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 07/02/2023. PCC for 1st Lift.	28 th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 19.00 M3
			224.26	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>229.55</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 08/02/2023. PCC for 1st Lift.	28 th day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 22.00 M3
			226.53	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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<b>SR. NO</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 09/02/2023. PCC for 2nd Lift.	28 th day compressive strength	233.32	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.27	Qty represents - 20.00 M3
			212.93	Ka/Cm <sup>2</sup>			
			210.67	Ka/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.98</b>	<b>Ka/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 10/02/2023. PCC for 2nd Lift.	28 th day compressive strength	237.85	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 22.00 M3
			219.73	Ka/Cm <sup>2</sup>			
			226.53	Ka/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Ka/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1:2:4</b> , cast on 11/02/2023. PCC for 2nd Lift.	28 th day compressive strength	219.73	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 19.00 M3
			222.00	Ka/Cm <sup>2</sup>			
			231.06	Ka/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Ka/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:2:4</b> , cast on 13/02/2023. PCC for 3rd Lift.	28 th day compressive strength	226.53	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 20.00 M3
			233.32	Ka/Cm <sup>2</sup>			
			219.73	Ka/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Ka/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD II , WD I, WRD, Mapusa Bardez - 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

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