

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F. 6-2/Cube -T : 5495,5496,5497,5499,5510,5515,5516/Lab/226/2022 - 23 Dated:- 02/01/2023.  
5527,5528,5553,5554.

Laboratory : Bicholim - Goa.  
Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Testing of concrete cubes for the work of " Flood Mitigation measures and construction of flood water pumping station at Mala, Panaji-Goa"**

Ref. to Requisition No : S.D.IV/WDI/WRD/F.38/2022-23/544. Dt.:- 01/12/2022

Qty. Recived. : 11 Sets of cube Date of Receipt:- 01/12/2022. Tested on: - 03,05,07,10,13,17, & 28/12/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M30 & 1:1.5:3** O.S No : 9508,9509,9511,9522,9546,9557,9558,9576,9577/SS & 876,877/RK. Lab. Sample No: 5425 to 5435 Tested By: Mrs. S.B. Naik Shirodkar. J.E. & Mrs. R.R.Kadam A.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 <b>M30</b> , cast on 05/11/2022. For 2nd Intake Well Sixth Lift.	28 <sup>th</sup> day compressive strength	364.71	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	2.65	Qty represents - 12 M3 for Two sets of cube.
			335.26	Kg/Cm <sup>2</sup>			
			362.44	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>354.14</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>M30</b> , cast on 05/11/2022. For 2nd Intake Well Sixth Lift.	28 <sup>th</sup> day compressive strength	355.65	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	1.33	-----do-----
			339.79	Kg/Cm <sup>2</sup>			
			353.38	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>349.61</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>M30</b> , cast on 07/11/2022. For 1st Intake Well Channel Raft & 1st Lift.	28 <sup>th</sup> day compressive strength	362.44	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	1.99	Qty represents - 5 M3 for One sets of cube.
			353.38	Kg/Cm <sup>2</sup>			
			339.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>351.87</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>M30</b> , cast on 09/11/2022. For 1st Intake Well Channel 2nd Lift.	28 <sup>th</sup> day compressive strength	344.32	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	2.43	Qty represents - 5 M3 for One sets of cube.
			353.38	Kg/Cm <sup>2</sup>			
			362.44	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>353.38</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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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 <b>M30</b> , cast on 12/11/2022. For 1st Intake Well Channel 3rd Lift.	28 <sup>th</sup> day compressive strength	355.65	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	5.49	Qty represents - 5 M3 for One sets of cube.
			369.24	Kg/Cm <sup>2</sup>			
			366.97	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>363.95</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>M30</b> , cast on 15/11/2022. For 2nd Intake Well Seventh Lift.	28 <sup>th</sup> day compressive strength	332.99	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	1.12	Qty represents - 12 M3 for Two sets of cube.
			362.44	Kg/Cm <sup>2</sup>			
			351.12	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>348.85</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>M30</b> , cast on 15/11/2022. For 2nd Intake Well Seventh Lift.	28 <sup>th</sup> day compressive strength	346.59	Kg/Cm <sup>2</sup>	345.00 Kg/cm <sup>2</sup>	3.74	-----do-----
			366.97	Kg/Cm <sup>2</sup>			
			360.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>357.91</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 19/11/2022. For Block Concrete of Suction Pipes 1st Lift.	28 <sup>th</sup> day compressive strength	289.95	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.29	Qty represents - 10 M3 for Two sets of cube.
			283.16	Kg/Cm <sup>2</sup>			
			255.97	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>276.36</b>	<b>Kg/Cm<sup>2</sup></b>			

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
9	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 19/11/2022. For Block Concrete of Suction Pipes 1st Lift.	28 <sup>th</sup> day compressive strength	292.22	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.86	Qty represents - 10 M3 for Two sets of cube.
			278.63	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>277.87</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 30/11/2022. For Block Concrete of Suction Pipes 2nd Lift.	28 <sup>th</sup> day compressive strength	280.89	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.86	Qty represents - 10 M3 for Two sets of cube.
			294.48	Kg/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>277.87</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 30/11/2022. For Block Concrete of Suction Pipes 2nd Lift.	28 <sup>th</sup> day compressive strength	294.48	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	6.85	-----do-----
			285.42	Kg/Cm <sup>2</sup>			
			269.57	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>283.16</b>	<b>Kg/Cm<sup>2</sup></b>			

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**