

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3776 to 3779,3839 to 3842,3871 to 3874,/ Lab /44 / 2022 - 23 Dated:- 23/04/2022. Laboratory : Bicholim - Goa.  
3932 to 3935,3966 to 3969,4011,4012 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : "Flood Mitigation measures and construction of flood water pumping station at Mala, Panaji - Goa".**

Ref. to Requisition No.: SDIV/WDI/WRD/F.38/21-22/806 Dt.:- 26/ 03/ 2022

Qty. Received. : 22 Sets of cube Date of Receipt:- 01/ 04 / 2022. Tested on: 02,06,09,13,17 & 20/04/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M -35** O.S No. : 463 to 466/R.K, 8041 to 8044, 8094 to 8097, 8167 to 8170, 8210 to 8213, 8262,8263/SS Lab. Sample No.: 3710 to 3731 Tested By: Mrs. S. B. Naik Shirodkar. J.E.

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix <b>M-35</b> , cast on 05/03/2022. For Pile No 11.	28 th day compressive strength	425.87	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.58	Qty represents - 9.00 M3 for two sets of cubes.
			421.34	Kg/Cm <sup>2</sup>			
			407.75	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>418.32</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>M-35</b> , cast on 05/03/2022. For Pile No 11.	28 th day compressive strength	398.69	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.50	----- do -----
			412.28	Kg/Cm <sup>2</sup>			
			419.07	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>410.01</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>M-35</b> , cast on 05/03/2022. For Pile No 14.	28 th day compressive strength	405.48	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.26	Qty represents - 9.00 M3 for two sets of cubes.
			407.75	Kg/Cm <sup>2</sup>			
			425.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>413.03</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>M-35</b> , cast on 05/03/2022. For Pile No 14.	28 th day compressive strength	414.54	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	1.94	----- do -----
			396.42	Kg/Cm <sup>2</sup>			
			412.28	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>407.75</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>M-35</b> , cast on 09/03/2022. For Pile No 03.	28 th day compressive strength	416.81	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.45	Qty represents - 9.00 M3 for two sets of cubes.
			407.75	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>413.79</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>M-35</b> , cast on 09/03/2022. For Pile No 03.	28 th day compressive strength	412.28	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.64	----- do -----
			428.13	Kg/Cm <sup>2</sup>			
			403.22	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>414.54</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
7	Cement concrete cube of mix <b>M-35</b> , cast on 09/03/2022. For Pile No 07.	28 th day compressive strength	396.42	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.58	Qty represents - 9.00 M3 for two sets of cubes.
			428.13	Kg/Cm <sup>2</sup>			
			430.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>418.32</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>M-35</b> , cast on 09/03/2022. For Pile No 07.	28 th day compressive strength	403.22	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.20	----- do -----
			428.13	Kg/Cm <sup>2</sup>			
			419.07	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>416.81</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>M-35</b> , cast on 12/03/2022. For Pile No 06.	28 th day compressive strength	410.01	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.13	Qty represents - 9.00 M3 for two sets of cubes.
			430.40	Kg/Cm <sup>2</sup>			
			385.09	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>408.50</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>M-35</b> , cast on 12/03/2022. For Pile No 06.	28 th day compressive strength	428.13	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	6.66	----- do -----
			434.93	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>426.62</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>M-35</b> , cast on 12/03/2022. For Pile No 02.	28 th day compressive strength	403.22	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.88	Qty represents - 9.00 M3 for two sets of cubes.
			419.07	Kg/Cm <sup>2</sup>			
			412.28	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>411.52</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>M-35</b> , cast on 12/03/2022. For Pile No 02.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	5.15	----- do -----
			432.67	Kg/Cm <sup>2</sup>			
			421.34	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>420.58</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>M-35</b> , cast on 16/03/2022. For Pile No 01.	28 th day compressive strength	389.63	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	1.75	Qty represents - 9.00 M3 for two sets of cubes.
			412.28	Kg/Cm <sup>2</sup>			
			419.07	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>406.99</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>M-35</b> , cast on 16/03/2022. For Pile No 01.	28 th day compressive strength	396.42	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.69	----- do -----
			416.81	Kg/Cm <sup>2</sup>			
			419.07	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>410.77</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>M-35</b> , cast on 16/03/2022. For Pile No 05.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.13	Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes.
			400.95	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>408.50</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
16	Cement concrete cube of mix <b>M-35</b> , cast on 16/03/2022. For Pile No 05.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	1.94	Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes.
			389.63	Kg/Cm <sup>2</sup>			
			425.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>407.75</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix <b>M-35</b> , cast on 20/03/2022. For Pile No 04.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.77	Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes.
			416.81	Kg/Cm <sup>2</sup>			
			432.67	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>419.07</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>M-35</b> , cast on 20/03/2022. For Pile No 04.	28 th day compressive strength	398.69	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.01	----- do -----
			437.20	Kg/Cm <sup>2</sup>			
			412.28	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>416.05</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Cement concrete cube of mix <b>M-35</b> , cast on 20/03/2022. For Pile No 22.	28 th day compressive strength	434.93	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	7.79	Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes.
			441.73	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>431.15</b>	<b>Kg/Cm<sup>2</sup></b>			
20	Cement concrete cube of mix <b>M-35</b> , cast on 20/03/2022. For Pile No 22.	28 th day compressive strength	410.01	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	5.90	----- do -----
			443.99	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>423.60</b>	<b>Kg/Cm<sup>2</sup></b>			
21	Cement concrete cube of mix <b>M-35</b> , cast on 23/03/2022. For Pile No 23.	28 th day compressive strength	432.67	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	4.58	Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes.
			414.54	Kg/Cm <sup>2</sup>			
			407.75	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>418.32</b>	<b>Kg/Cm<sup>2</sup></b>			
22	Cement concrete cube of mix <b>M-35</b> , cast on 23/03/2022. For Pile No 23.	28 th day compressive strength	439.46	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	6.09	----- do -----
			421.34	Kg/Cm <sup>2</sup>			
			412.28	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>424.36</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD IV , 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.

Junior Engineer

Assistant Engineer