

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3356 to 3359,3409 to 3412,3454 to 3457,/ Lab / **21** / 2022 - 23 Dated:- 11/04/2022. Laboratory : Bicholim - Goa.  
3507 & 3510,3571,3572,3590 & 3591 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.38/21-22/742 Dt.:- 05/ 03/ 2022

Qty. Recived. : 20 Sets of cube Date of Receipt:- 05/ 03 / 2022. Tested on: 05,10,15,19,24 & 25/03/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix M -35 O.S No. :7829 to 7832,7886 to 7889,7927 to 7930,7968 & 7971/SS , 250,251,273, & 274/R.K. Lab. Sample No.: 3257 to 3276 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-35, cast on 05/02/2022. For Pile No 17.	28 th day compressive strength	419.07	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.50	Qty represents - 9.00 M3 for two sets of cubes.
			403.22	Kg/Cm <sup>2</sup>			
			407.75	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>410.01</b>			
2	Cement concrete cube of mix M-35, cast on 05/02/2022. For Pile No 17.	28 th day compressive strength	410.01	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.45	----- do -----
			423.60	Kg/Cm <sup>2</sup>			
			407.75	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>413.79</b>			
3	Cement concrete cube of mix M-35, cast on 05/02/2022. For Pile No 15.	28 th day compressive strength	400.95	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.26	Qty represents - 9.00 M3 for two sets of cubes.
			412.28	Kg/Cm <sup>2</sup>			
			425.87	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>413.03</b>			
4	Cement concrete cube of mix M-35, cast on 05/02/2022. For Pile No 15.	28 th day compressive strength	396.42	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	1.94	----- do -----
			407.75	Kg/Cm <sup>2</sup>			
			419.07	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>407.75</b>			
5	Cement concrete cube of mix M-35, cast on 10/02/2022. For Pile No 18.	28 th day compressive strength	405.48	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.69	Qty represents - 9.00 M3 for two sets of cubes.
			416.81	Kg/Cm <sup>2</sup>			
			410.01	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>410.77</b>			
6	Cement concrete cube of mix M-35, cast on 10/02/2022. For Pile No 18.	28 th day compressive strength	419.07	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.64	----- do -----
			407.75	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>414.54</b>			

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7	Cement concrete cube of mix M-35, cast on 10/02/2022. For Pile No 16.	28 th day compressive strength	396.42	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.26	Qty represents - 9.00 M3 for two sets of cubes.
			428.13	Kg/Cm <sup>2</sup>			
			414.54	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>413.03</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix M-35, cast on 10/02/2022. For Pile No 16.	28 th day compressive strength	391.89	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.69	----- do -----
			410.01	Kg/Cm <sup>2</sup>			
			430.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>410.77</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix M-35, cast on 15/02/2022. For Pile No 21.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	1.18	Qty represents - 9.00 M3 for two sets of cubes.
			416.81	Kg/Cm <sup>2</sup>			
			389.63	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>404.73</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix M-35, cast on 15/02/2022. For Pile No 21.	28 th day compressive strength	425.87	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.31	----- do -----
			407.75	Kg/Cm <sup>2</sup>			
			394.16	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>409.26</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix M-35, cast on 15/02/2022. For Pile No 19.	28 th day compressive strength	391.89	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.69	Qty represents - 9.00 M3 for two sets of cubes.
			423.60	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>410.77</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix M-35, cast on 15/02/2022. For Pile No 19.	28 th day compressive strength	428.13	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	8.36	----- do -----
			430.40	Kg/Cm <sup>2</sup>			
			441.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>433.42</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix M-35, cast on 19/02/2022. For Pile No 20.	28 th day compressive strength	432.67	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	8.17	Qty represents - 9.00 M3 for two sets of cubes.
			425.87	Kg/Cm <sup>2</sup>			
			439.46	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>432.67</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix M-35, cast on 19/02/2022. For Pile No 20.	28 th day compressive strength	405.48	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	5.33	----- do -----
			423.60	Kg/Cm <sup>2</sup>			
			434.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>421.34</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix M-35, cast on 19/02/2022. For Pile No 08.	28 th day compressive strength	443.99	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	8.36	Qty represents - 9.00 M3 for two sets of cubes.
			439.46	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>433.42</b>	<b>Kg/Cm<sup>2</sup></b>			

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16	Cement concrete cube of mix M-35, cast on 19/02/2022. For Pile No 08.	28 th day compressive strength	407.75	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.82	Qty represents - 9.00 M3 for two sets of cubes.
			425.87	Kg/Cm <sup>2</sup>			
			412.28	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>415.30</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix M-35, cast on 24/02/2022. For Pile No 09.	28 th day compressive strength	394.16	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.13	Qty represents - 9.00 M3 for two sets of cubes.
			421.34	Kg/Cm <sup>2</sup>			
			410.01	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>408.50</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix M-35, cast on 24/02/2022. For Pile No 09.	28 th day compressive strength	405.48	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	2.88	----- do -----
			412.28	Kg/Cm <sup>2</sup>			
			416.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>411.52</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Cement concrete cube of mix M-35, cast on 25/02/2022. For Pile No 12.	28 th day compressive strength	416.81	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.07	Qty represents - 9.00 M3 for two sets of cubes.
			405.48	Kg/Cm <sup>2</sup>			
			414.54	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>412.28</b>	<b>Kg/Cm<sup>2</sup></b>			
20	Cement concrete cube of mix M-35, cast on 25/02/2022. For Pile No 12.	28 th day compressive strength	419.07	Kg/Cm <sup>2</sup>	400.00 Kg/cm <sup>2</sup>	3.26	----- do -----
			394.16	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>			

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.

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