

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

**Test Report No: WRD/QC/F.6-2/Cube -T : 7147 to 7151, 7161 to 7165, 7172 to 7176/Lab/99/2023 - 24 Dated:- 15/06/2023. Laboratory : Bicholim - Goa.**  
**7185 to 7189, 7193 to 7197, 7201 to 7205, 7210 to 7214. Sub Division V (QC)/WRD/ Bicholim- Goa.**

**Name of work : Rejuvenation of St.Inez nallah-Improvement to Hydrodynamics, water quality and Stabilization of banks, under Smart City Mission.**

Ref. to Requisition No : SDIV/WDI /WRD/F.38/2022-23/132 Dt :- 02/06/2023

Qty. Recived : 35 Sets of cube Date of Receipt:- 05/06/2023. Tested on: 06,07,08,09,10,11 & 12/06/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M-25** O.S No: 1445,1446,1447,1448,1449,1459,1460,1461,1462,1463,1470,1471,1472,1473,1474,1483,1484,1485,1486,1487,1491,1492,1493,1494,1495,1499,1500,1501,1502,1503,1508,1509,1510,1511,1512/RK. Lab. Sample No: 7366 to 7400 Tested By : 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>M-25</b> , cast on 09/05/2023. for Nunes IInd Lift. Nunes IInd Lift PCC Bend. Nunes IInd Lift PCC Bend.	28 th day compressive strength	299.01	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	3.89	Qty represents - 56.00 M3 for five sets of cube.
			292.22	Kq/Cm <sup>2</sup>			
			312.61	Kq/Cm <sup>2</sup>			
			<b>Average</b>	<b>301.28</b>			
2	Cement concrete cube of mix <b>M-25</b> , cast on 09/05/2023. for Nunes IInd Lift. Nunes IInd Lift PCC Bend. Nunes IInd Lift PCC Bend.	28 th day compressive strength	317.14	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	4.41	---do---
			305.81	Kq/Cm <sup>2</sup>			
			285.42	Kq/Cm <sup>2</sup>			
			<b>Average</b>	<b>302.79</b>			
3	Cement concrete cube of mix <b>M-25</b> , cast on 09/05/2023. for Nunes IInd Lift. Nunes IInd Lift PCC Bend. Nunes IInd Lift PCC Bend.	28 th day compressive strength	319.40	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.27	---do---
			289.95	Kq/Cm <sup>2</sup>			
			323.93	Kq/Cm <sup>2</sup>			
			<b>Average</b>	<b>311.10</b>			
4	Cement concrete cube of mix <b>M-25</b> , cast on 09/05/2023. for Nunes IInd Lift. Nunes IInd Lift PCC Bend. Nunes IInd Lift PCC Bend.	28 th day compressive strength	283.16	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.27	---do---
			321.67	Kq/Cm <sup>2</sup>			
			328.46	Kq/Cm <sup>2</sup>			
			<b>Average</b>	<b>311.10</b>			
5	Cement concrete cube of mix <b>M-25</b> , cast on 09/05/2023. for Nunes IInd Lift. Nunes IInd Lift PCC Bend. Nunes IInd Lift PCC Bend.	28 th day compressive strength	310.34	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	9.62	---do---
			317.14	Kq/Cm <sup>2</sup>			
			326.20	Kq/Cm <sup>2</sup>			
			<b>Average</b>	<b>317.89</b>			

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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>
6	Cement concrete cube of mix <b>M-25</b> , cast on 10/05/2023. for Opposite fire station fd. Pumping Station Sewerage fd.	28 th day compressive strength	319.40	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.75	Qty represents - 59.00 M3 for five sets of cube.
			326.20	Kq/Cm <sup>2</sup>			
			283.16	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>309.59</b>	<b>Kq/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>M-25</b> , cast on 10/05/2023. for Opposite fire station fd. Pumping Station Sewerage fd.	28 th day compressive strength	292.22	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.19	---do---
			305.81	Kq/Cm <sup>2</sup>			
			317.14	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>305.06</b>	<b>Kq/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>M-25</b> , cast on 10/05/2023. for Opposite fire station fd. Pumping Station Sewerage fd.	28 th day compressive strength	319.40	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.45	---do---
			287.69	Kq/Cm <sup>2</sup>			
			310.34	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>305.81</b>	<b>Kq/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>M-25</b> , cast on 10/05/2023. for Opposite fire station fd. Pumping Station Sewerage fd.	28 th day compressive strength	321.67	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.23	---do---
			312.61	Kq/Cm <sup>2</sup>			
			289.95	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>308.08</b>	<b>Kq/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>M-25</b> , cast on 10/05/2023. for Opposite fire station fd. Pumping Station Sewerage fd.	28 th day compressive strength	285.42	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.23	---do---
			314.87	Kq/Cm <sup>2</sup>			
			323.93	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>308.08</b>	<b>Kq/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>M-25</b> , cast on 11/05/2023. for Pumping Station Sewerage fd.	28 th day compressive strength	310.34	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	3.63	Qty represents - 54.00 M3 for five sets of cube.
			299.01	Kq/Cm <sup>2</sup>			
			292.22	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>300.52</b>	<b>Kq/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>M-25</b> , cast on 11/05/2023. for Pumping Station Sewerage fd.	28 th day compressive strength	323.93	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.71	---do---
			308.08	Kq/Cm <sup>2</sup>			
			287.69	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>306.57</b>	<b>Kq/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>M-25</b> , cast on 11/05/2023. for Pumping Station Sewerage fd.	28 th day compressive strength	321.67	Kq/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.53	---do---
			319.40	Kq/Cm <sup>2</sup>			
			294.48	Kq/Cm <sup>2</sup>			
		<b>Average</b>	<b>311.85</b>	<b>Kq/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
14	Cement concrete cube of mix <b>M-25</b> , cast on 11/05/2023. for Pumping Station Sewerage fd.	28 th day compressive strength	314.87	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	3.89	Qty represents - 54.00 M3 for five sets of cube.
			296.75	Kg/Cm <sup>2</sup>			
			292.22	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>301.28</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>M-25</b> , cast on 11/05/2023. for Pumping Station Sewerage fd.	28 th day compressive strength	283.16	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.23	---do---
			323.93	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>308.08</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>M-25</b> , cast on 12/05/2023. for Pumping Station Sewerage 1st Lift.	28 th day compressive strength	330.73	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	9.10	Qty represents - 76.00 M3 for five sets of cube.
			289.95	Kg/Cm <sup>2</sup>			
			328.46	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>316.38</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix <b>M-25</b> , cast on 12/05/2023. for Pumping Station Sewerage 1st Lift.	28 th day compressive strength	285.42	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.01	---do---
			314.87	Kg/Cm <sup>2</sup>			
			330.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>310.34</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>M-25</b> , cast on 12/05/2023. for Pumping Station Sewerage 1st Lift.	28 th day compressive strength	289.95	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	4.93	---do---
			314.87	Kg/Cm <sup>2</sup>			
			308.08	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>304.30</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Cement concrete cube of mix <b>M-25</b> , cast on 12/05/2023. for Pumping Station Sewerage 1st Lift.	28 th day compressive strength	280.89	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	4.67	---do---
			310.34	Kg/Cm <sup>2</sup>			
			319.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>303.55</b>	<b>Kg/Cm<sup>2</sup></b>			
20	Cement concrete cube of mix <b>M-25</b> , cast on 12/05/2023. for Pumping Station Sewerage 1st Lift.	28 th day compressive strength	308.08	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.97	---do---
			321.67	Kg/Cm <sup>2</sup>			
			292.22	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>307.32</b>	<b>Kg/Cm<sup>2</sup></b>			
21	Cement concrete cube of mix <b>M-25</b> , cast on 13/05/2023. for Babuli bldg. fd.	28 th day compressive strength	314.87	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.75	Qty represents - 54.00 M3 for five sets of cube.
			326.20	Kg/Cm <sup>2</sup>			
			287.69	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>309.59</b>	<b>Kg/Cm<sup>2</sup></b>			

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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>
22	Cement concrete cube of mix <b>M-25</b> , cast on 13/05/2023. for Babuli bldg. fd.	28 th day compressive strength	283.16	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.23	Qty represents - 54.00 M3 for five sets of cube.
			323.93	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>308.08</b>	<b>Kg/Cm<sup>2</sup></b>			
23	Cement concrete cube of mix <b>M-25</b> , cast on 13/05/2023. for Babuli bldg. fd.	28 th day compressive strength	323.93	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	9.62	---do---
			312.61	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>317.89</b>	<b>Kg/Cm<sup>2</sup></b>			
24	Cement concrete cube of mix <b>M-25</b> , cast on 13/05/2023. for Babuli bldg. fd.	28 th day compressive strength	287.69	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	6.75	---do---
			319.40	Kg/Cm <sup>2</sup>			
			321.67	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>309.59</b>	<b>Kg/Cm<sup>2</sup></b>			
25	Cement concrete cube of mix <b>M-25</b> , cast on 13/05/2023. for Babuli bldg. fd.	28 th day compressive strength	326.20	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	8.06	---do---
			323.93	Kg/Cm <sup>2</sup>			
			289.95	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>313.36</b>	<b>Kg/Cm<sup>2</sup></b>			
26	Cement concrete cube of mix <b>M-25</b> , cast on 14/05/2023. for Babuli bldg. fd.	28 th day compressive strength	323.93	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	10.66	Qty represents - 54.00 M3 for five sets of cube.
			321.67	Kg/Cm <sup>2</sup>			
			317.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>320.91</b>	<b>Kg/Cm<sup>2</sup></b>			
27	Cement concrete cube of mix <b>M-25</b> , cast on 14/05/2023. for Babuli bldg. fd.	28 th day compressive strength	292.22	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.45	---do---
			310.34	Kg/Cm <sup>2</sup>			
			314.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>305.81</b>	<b>Kg/Cm<sup>2</sup></b>			
28	Cement concrete cube of mix <b>M-25</b> , cast on 14/05/2023. for Babuli bldg. fd.	28 th day compressive strength	301.28	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	4.41	---do---
			317.14	Kg/Cm <sup>2</sup>			
			289.95	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>302.79</b>	<b>Kg/Cm<sup>2</sup></b>			
29	Cement concrete cube of mix <b>M-25</b> , cast on 14/05/2023. for Babuli bldg. fd.	28 th day compressive strength	305.81	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	9.10	---do---
			319.40	Kg/Cm <sup>2</sup>			
			323.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>316.38</b>	<b>Kg/Cm<sup>2</sup></b>			

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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>
30	Cement concrete cube of mix <b>M-25</b> , cast on 14/05/2023. for Babuli bldg. fd.	28 th day compressive strength	321.67	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.97	Qty represents - 54.00 M3 for five sets of cube.
			314.87	Kg/Cm <sup>2</sup>			
			285.42	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>307.32</b>	<b>Kg/Cm<sup>2</sup></b>			
31	Cement concrete cube of mix <b>M-25</b> , cast on 15/05/2023. for Babuli bldg. 1st Lift.	28 th day compressive strength	323.93	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.01	
			312.61	Kg/Cm <sup>2</sup>			
			294.48	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>310.34</b>	<b>Kg/Cm<sup>2</sup></b>			
32	Cement concrete cube of mix <b>M-25</b> , cast on 15/05/2023. for Babuli bldg. 1st Lift.	28 th day compressive strength	321.67	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.80	---do---
			319.40	Kg/Cm <sup>2</sup>			
			296.75	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>312.61</b>	<b>Kg/Cm<sup>2</sup></b>			
33	Cement concrete cube of mix <b>M-25</b> , cast on 15/05/2023. for Babuli bldg. 1st Lift.	28 th day compressive strength	314.87	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.01	---do---
			289.95	Kg/Cm <sup>2</sup>			
			326.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>310.34</b>	<b>Kg/Cm<sup>2</sup></b>			
34	Cement concrete cube of mix <b>M-25</b> , cast on 15/05/2023. for Babuli bldg. 1st Lift.	28 th day compressive strength	321.67	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	7.53	---do---
			308.08	Kg/Cm <sup>2</sup>			
			305.81	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>311.85</b>	<b>Kg/Cm<sup>2</sup></b>			
35	Cement concrete cube of mix <b>M-25</b> , cast on 15/05/2023. for Babuli bldg. 1st Lift.	28 th day compressive strength	319.40	Kg/Cm <sup>2</sup>	290.00 Kg/cm <sup>2</sup>	5.97	---do---
			287.69	Kg/Cm <sup>2</sup>			
			314.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>307.32</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer, SDIV, 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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