

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.27 / Cube -T : 5415 To 5426, 5428 To 5440, 5443 To 5454 /Lab/ 182 / 2022 - 23 Dated:- 01/11/2022. Laboratory : Bicholim - Goa.

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

Name of work : Construction of 30 MLD Raw water Pumping station at Calangute on calangute distributary of Tillari canal for pilerne Industrial Estate and surrounding villages of Calangute and saligao.

Ref. to Requisition No.: SDV/WDI/WRD/F.27/22-23/186 Dt.:- 20/10/2022

Qty. Recived. : 37 Sets of cube Date of Receipt:- 21/10/2022. Tested on: 24,25 & 26/10/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M25** O.S No :9407,9408,9409,9410,9411,9412,9413,9414,9415,9416,9417,9418,9420,9421,9422,9423,9424,9425,9426,9427,9428,9429,9430,9431, 9432,9436,9437,9438,9439,9440,9441,9442,9443,9444,9445,9446, & 9447/SS Lab. Sample No: 5323 to 5359 Tested By: Mrs. S. B. Naik Shirodkar J.E.

Cube test witnessed by Shri Pranesh Todkar representative by agency M/s Sheth and Sura Engineers Pvt. Ltd. on 25/10/2022.

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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 M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	317.14	Kg/Cm ²	290.00 Kg/cm ²	3.11	Qty represents - 423.00 cum for Twelve sets of cube.
			308.08	Kg/Cm ²			
			271.83	Kg/Cm ²			
		Average	299.01	Kg/Cm²			
2	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	314.87	Kg/Cm ²	290.00 Kg/cm ²	5.97	---do--
			289.95	Kg/Cm ²			
			317.14	Kg/Cm ²			
		Average	307.32	Kg/Cm²			
3	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	285.42	Kg/Cm ²	290.00 Kg/cm ²	6.75	---do--
			305.81	Kg/Cm ²			
			337.52	Kg/Cm ²			
		Average	309.59	Kg/Cm²			
4	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	294.48	Kg/Cm ²	290.00 Kg/cm ²	1.03	---do--
			308.08	Kg/Cm ²			
			276.36	Kg/Cm ²			
		Average	292.97	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
5	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	280.89	Kg/Cm ²	290.00 Kg/cm ²	7.53	Qty represents - 423.00 cum for Twelve sets of cube.
			317.14	Kg/Cm ²			
			337.52	Kg/Cm ²			
		Average	311.85	Kg/Cm²			
6	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	283.16	Kg/Cm ²	290.00 Kg/cm ²	1.55	---do--
			305.81	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	294.48	Kg/Cm²			
7	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	305.81	Kg/Cm ²	290.00 Kg/cm ²	3.37	---do--
			283.16	Kg/Cm ²			
			310.34	Kg/Cm ²			
		Average	299.77	Kg/Cm²			
8	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	337.52	Kg/Cm ²	290.00 Kg/cm ²	18.47	---do--
			351.12	Kg/Cm ²			
			342.05	Kg/Cm ²			
		Average	343.56	Kg/Cm²			
9	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	283.16	Kg/Cm ²	290.00 Kg/cm ²	1.29	---do--
			301.28	Kg/Cm ²			
			296.75	Kg/Cm ²			
		Average	293.73	Kg/Cm²			
10	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	292.22	Kg/Cm ²	290.00 Kg/cm ²	7.27	---do--
			308.08	Kg/Cm ²			
			332.99	Kg/Cm ²			
		Average	311.10	Kg/Cm²			
11	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	285.42	Kg/Cm ²	290.00 Kg/cm ²	3.89	---do--
			305.81	Kg/Cm ²			
			312.61	Kg/Cm ²			
		Average	301.28	Kg/Cm²			
12	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	310.34	Kg/Cm ²	290.00 Kg/cm ²	2.59	---do--
			287.69	Kg/Cm ²			
			294.48	Kg/Cm ²			
		Average	297.50	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
13	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	280.89	Kg/Cm ²	290.00 Kg/cm ²	3.89	Qty represents - 484.00 cum for Thirteen sets of cube.
			310.34	Kg/Cm ²			
			312.61	Kg/Cm ²			
			Average	301.28			
14	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	305.81	Kg/Cm ²	290.00 Kg/cm ²	2.85	---do--
			303.55	Kg/Cm ²			
			285.42	Kg/Cm ²			
			Average	298.26			
15	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	303.55	Kg/Cm ²	290.00 Kg/cm ²	4.93	---do--
			292.22	Kg/Cm ²			
			317.14	Kg/Cm ²			
			Average	304.30			
16	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	294.48	Kg/Cm ²	290.00 Kg/cm ²	4.15	---do--
			296.75	Kg/Cm ²			
			314.87	Kg/Cm ²			
			Average	302.03			
17	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	308.08	Kg/Cm ²	290.00 Kg/cm ²	3.37	---do--
			283.16	Kg/Cm ²			
			308.08	Kg/Cm ²			
			Average	299.77			
18	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	285.42	Kg/Cm ²	290.00 Kg/cm ²	2.33	---do--
			305.81	Kg/Cm ²			
			299.01	Kg/Cm ²			
			Average	296.75			
19	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	294.48	Kg/Cm ²	290.00 Kg/cm ²	2.59	---do--
			308.08	Kg/Cm ²			
			289.95	Kg/Cm ²			
			Average	297.50			
20	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	303.55	Kg/Cm ²	290.00 Kg/cm ²	5.45	---do--
			326.20	Kg/Cm ²			
			287.69	Kg/Cm ²			
			Average	305.81			

Junior Engineer

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
21	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	283.16	Kg/Cm ²	290.00 Kg/cm ²	1.81	Qty represents - 484.00 cum for Thirteen sets of cube.
			305.81	Kg/Cm ²			
			296.75	Kg/Cm ²			
			Average	295.24			
22	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	285.42	Kg/Cm ²	290.00 Kg/cm ²	5.97	---do--
			308.08	Kg/Cm ²			
			328.46	Kg/Cm ²			
			Average	307.32			
23	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	335.26	Kg/Cm ²	290.00 Kg/cm ²	13.52	---do--
			328.46	Kg/Cm ²			
			323.93	Kg/Cm ²			
			Average	329.22			
24	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	308.08	Kg/Cm ²	290.00 Kg/cm ²	4.15	---do--
			314.87	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	302.03			
25	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day compressive strength	319.40	Kg/Cm ²	290.00 Kg/cm ²	3.63	---do--
			303.55	Kg/Cm ²			
			278.63	Kg/Cm ²			
			Average	300.52			
26	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	299.01	Kg/Cm ²	290.00 Kg/cm ²	2.33	Qty represents - 424.00 cum for Twelve sets of cube.
			314.87	Kg/Cm ²			
			276.36	Kg/Cm ²			
			Average	296.75			
27	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	289.95	Kg/Cm ²	290.00 Kg/cm ²	2.85	---do--
			308.08	Kg/Cm ²			
			296.75	Kg/Cm ²			
			Average	298.26			
28	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	310.34	Kg/Cm ²	290.00 Kg/cm ²	3.11	---do--
			303.55	Kg/Cm ²			
			283.16	Kg/Cm ²			
			Average	299.01			

Junior Engineer

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
29	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	310.34	Kg/Cm ²	290.00 Kg/cm ²	3.63	Qty represents - 424.00 cum for Twelve sets of cube.
			301.28	Kg/Cm ²			
			289.95	Kg/Cm ²			
		Average	300.52	Kg/Cm²			
30	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	294.48	Kg/Cm ²	290.00 Kg/cm ²	2.33	---do--
			308.08	Kg/Cm ²			
			287.69	Kg/Cm ²			
		Average	296.75	Kg/Cm²			
31	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	308.08	Kg/Cm ²	290.00 Kg/cm ²	2.85	---do--
			305.81	Kg/Cm ²			
			280.89	Kg/Cm ²			
		Average	298.26	Kg/Cm²			
32	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	305.81	Kg/Cm ²	290.00 Kg/cm ²	3.37	---do--
			289.95	Kg/Cm ²			
			303.55	Kg/Cm ²			
		Average	299.77	Kg/Cm²			
33	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	289.95	Kg/Cm ²	290.00 Kg/cm ²	2.85	---do--
			296.75	Kg/Cm ²			
			308.08	Kg/Cm ²			
		Average	298.26	Kg/Cm²			
34	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	283.16	Kg/Cm ²	290.00 Kg/cm ²	1.29	---do--
			305.81	Kg/Cm ²			
			292.22	Kg/Cm ²			
		Average	293.73	Kg/Cm²			
35	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	285.42	Kg/Cm ²	290.00 Kg/cm ²	2.59	---do--
			305.81	Kg/Cm ²			
			301.28	Kg/Cm ²			
		Average	297.50	Kg/Cm²			
36	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day compressive strength	317.14	Kg/Cm ²	290.00 Kg/cm ²	5.97	---do--
			289.95	Kg/Cm ²			
			314.87	Kg/Cm ²			
		Average	307.32	Kg/Cm²			

Junior Engineer

Assistant Engineer

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
37	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	28 th day	323.93	Kg/Cm ²	290.00 Kg/cm ²	4.41	---do--
		compressive	280.89	Kg/Cm ²			
		strength	303.55	Kg/Cm ²			
		Average	302.79	Kg/Cm²			

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