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
		28 th day	317.14	Kg/Cm ²	290.00 Kg/cm ²	3.11	Oty represents - 423.00 cum for Twelve
	Cement concrete cube of mix M25 , cast on	compressive	308.08	Kg/Cm ²			
'	26/09/2022. RCC for Raft of delivery tank.	strength	271.83	Kg/Cm ²	290.00 Kg/CIII		sets of cube.
		Average	299.01	Kg/Cm ²			
		28 th day	314.87	Kg/Cm ²		5.97	do
2	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	compressive	289.95	Kg/Cm ²	290.00 Kg/cm ²		
-		strength	317.14	Kg/Cm ²			
		Average	307.32	Kg/Cm ²			
	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day	285.42	Kg/Cm ²		6.75	do
3		compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²		
"		strength	337.52	Kg/Cm ²	290.00 kg/cm		
		Average	309.59	Kg/Cm ²			
	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day	294.48	Kg/Cm ²	- 290.00 Kg/cm ²	1.03	do
1 /1		compressive	308.08	Kg/Cm ²			
-		strength	276.36	Kg/Cm ²			
		Average	292.97	Kg/Cm ²			

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day	280.89	Kg/Cm ²		7.53	Qty represents - 423.00 cum for Twelve sets of cube.
5		compressive	317.14	Kg/Cm ²	200 00 Kg/cm ²		
3		strength	337.52	Kg/Cm ²	290.00 Kg/cm ²		
		Average	311.85	Kq/Cm ²			
		28 th day	283.16	Kg/Cm ²			
6	Cement concrete cube of mix M25 , cast on	compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²	1.55	do
"	26/09/2022. RCC for Raft of delivery tank.	strength	294.48	Kg/Cm ²	290.00 kg/ciii	1.55	u 0
		Average	294.48	Kg/Cm ²			
		28 th day	305.81	Kg/Cm ²			
7	Cement concrete cube of mix M25 , cast on	compressive	283.16	Kg/Cm ²	290.00 Kg/cm ²	3.37	do
'	26/09/2022. RCC for Raft of delivery tank.	strength	310.34	Kg/Cm ²	290.00 kg/cm	5.57	u 0
		Average	299.77	Kg/Cm ²			
	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	28 th day	337.52	Kg/Cm ²	290.00 Kg/cm ²	18.47	do
8		compressive	351.12	Kg/Cm ²			
"		strength	342.05	Kg/Cm ²	290.00 kg/cm		
		Average	343.56	Kg/Cm ²			
		28 th day	283.16	Kg/Cm ²			do
9	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	compressive	301.28	Kg/Cm ²	290.00 Kg/cm ²	1.29	
′		strength	296.75	Kg/Cm ²			
		Average	293.73	Kq/Cm ²			
		28 th day	292.22	Kg/Cm ²		7.27	do
10	Cement concrete cube of mix M25 , cast on	compressive	308.08	Kg/Cm ²	290.00 Kg/cm ²		
	26/09/2022. RCC for Raft of delivery tank.	strength	332.99	Kg/Cm ²	2 70.00 kg/cm	1.21	do
		Average	311.10	Kg/Cm ²			
		28 th day	285.42	Kg/Cm ²			do
11	Cement concrete cube of mix M25 , cast on 26/09/2022. RCC for Raft of delivery tank.	compressive	305.81	Kg/Cm ²	- 290.00 Kg/cm ²	3.89	
' '		strength	312.61	Kg/Cm ²			
		Average	301.28	Kq/Cm ²			
		28 th day	310.34	Kg/Cm ²		2.59	do
12	Cement concrete cube of mix M25 , cast on	compressive	287.69	Kg/Cm ²	290.00 Kg/cm ²		
'-	26/09/2022. RCC for Raft of delivery tank.	strength	294.48	Kg/Cm ²	2 70.00 Kg/CIII		
		Average	297.50	Kg/Cm ²			

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
	Cement concrete cube of mix M25 , cast on	28 th day	280.89	Ka/Cm ²		3.89	Oty represents - 484.00 cum for Thirteen
13		compressive	310.34	Ka/Cm ²	290.00 Kg/cm ²		
'3	27/09/2022. RCC for Raft of delivery tank.	strength	312.61	Ka/Cm ²	2 70.00 Kg/Cili	3.07	sets of cube.
		Average	301.28	Ka/Cm ²			
		28 th day	305.81	Ka/Cm ²			
14	Cement concrete cube of mix M25 , cast on	compressive	303.55	Ka/Cm ²	290.00 Kg/cm ²	2.85	do
1	27/09/2022. RCC for Raft of delivery tank.	strength	285.42	Ka/Cm ²	2 70.00 kg/cm	2.00	
		Average	298.26	Ka/Cm²			
		28 th day	303.55	Ka/Cm ²			
15	Cement concrete cube of mix M25 , cast on	compressive	292.22	Ka/Cm ²	290.00 Kg/cm ²	4.93	do
'	27/09/2022. RCC for Raft of delivery tank.	strength	317.14	Ka/Cm ²	2 70.00 kg/cm	1.70	40
		Average	304.30	Ka/Cm ²			
	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	28 th day	294.48	Ka/Cm ²	290.00 Kg/cm ²	4.15	do
16		compressive	296.75	Ka/Cm ²			
		strength	314.87	Ka/Cm ²			
		Average	302.03	Ka/Cm ²			
		28 th day	308.08	Ka/Cm ²	290.00 Kg/cm ²		do
17	Cement concrete cube of mix M25 , cast on	compressive	283.16	Ka/Cm ²		3.37	
	27/09/2022. RCC for Raft of delivery tank.	strength	308.08	Ka/Cm ²			
		Average	299.77	Ka/Cm ²			
		28 th day	285.42	Ka/Cm ²	_	2.33	
18	Cement concrete cube of mix M25 , cast on	compressive	305.81	Ka/Cm ²	290.00 Kg/cm ²		do
	27/09/2022. RCC for Raft of delivery tank.	strength	299.01	Ka/Cm ²	270.00 Kg/oiii		
		Average	296.75	Ka/Cm ²			
	0 1 1 6 1 8405	28 th day	294.48	Ka/Cm ²	_		do
19	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	compressive	308.08	Ka/Cm ²	290.00 Kg/cm ²	2.59	
		strength	289.95	Kg/Cm ²			
		Average	297.50	Ka/Cm ²			
	0	28 th day	303.55	Ka/Cm ²	290.00 Kg/cm ²		
20	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	compressive	326.20	Ka/Cm ²		5.45	do
_ ~		strength	287.69	Ka/Cm ²			
		Average	305.81	Kg/Cm ²			

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
		28 th day	283.16	Kg/Cm ²		1.81	Oty represents - 484.00 cum for Thirteen sets of cube.
21	Cement concrete cube of mix M25 , cast on	compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²		
- '	27/09/2022. RCC for Raft of delivery tank.	strength	296.75	Kg/Cm ²	270.00 Kg/CIII		
		Average	295.24	Kq/Cm ²			
		28 th day	285.42	Kg/Cm ²			
22	Cement concrete cube of mix M25 , cast on	compressive	308.08	Kg/Cm ²	290.00 Kg/cm ²	5.97	do
	27/09/2022. RCC for Raft of delivery tank.	strength	328.46	Kg/Cm ²	2 70.00 kg/cm	0.77	
		Average	307.32	Kq/Cm ²			
		28 th day	335.26	Kq/Cm ²			
23	Cement concrete cube of mix M25, cast on	compressive	328.46	Kq/Cm ²	290.00 Kg/cm ²	13.52	do
	27/09/2022. RCC for Raft of delivery tank.	strength	323.93	Kg/Cm ²	270.00 kg/0111		
		Average	329.22	Kg/Cm ²			
		28 th day	308.08	Kg/Cm ²	290.00 Kg/cm ² 4.15		do
24	Cement concrete cube of mix M25 , cast on 27/09/2022. RCC for Raft of delivery tank.	compressive	314.87	Kg/Cm ²		4.15	
		strength	283.16	Kg/Cm ²	270.00 kg/oiii		
		Average	302.03	Kq/Cm ²			
		28 th day	319.40	Kg/Cm ²	-		do
25	Cement concrete cube of mix M25 , cast on	compressive	303.55	Kg/Cm ²	290.00 Kg/cm ²	3.63	
	27/09/2022. RCC for Raft of delivery tank.	strength	278.63	Kg/Cm ²			
		Average	300.52	Kq/Cm ²			
		28 th day	299.01	Kg/Cm ²			
26	Cement concrete cube of mix M25 , cast on	compressive	314.87	Kg/Cm ²	290.00 Kg/cm ²	2.33	Oty represents - 424.00 cum for Twelve
	28/09/2022. RCC for Tank of delivery tank.	strength	276.36	Kg/Cm ²			sets of cube.
		Average	296.75	Kg/Cm ²			
		28 th day	289.95	Kg/Cm ²	-		do
27	Cement concrete cube of mix M25 , cast on	compressive	308.08	Kg/Cm ²	290.00 Kg/cm ²	2.85	
	28/09/2022. RCC for Tank of delivery tank.	strength	296.75	Kg/Cm ²	270.00 11970111		
		Average	298.26	Kg/Cm ²			
	0	28 th day	310.34	Kg/Cm ²	290.00 Kg/cm ²	3.11	
28	Cement concrete cube of mix M25 , cast on	compressive	303.55	Kg/Cm ²			do
	28/09/2022. RCC for Tank of delivery tank.	strength	283.16	Kg/Cm ²			
		Average	299.01	Kq/Cm ²			

SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
		28 th day	310.34	Kg/Cm ²	Cm ²		Qty represents - 424.00 cum for Twelve sets of cube.
29	Cement concrete cube of mix M25 , cast on	compressive	301.28	Kg/Cm ²	290.00 Kg/cm ²	3.63	
29	28/09/2022. RCC for Tank of delivery tank.	strength	289.95	Kg/Cm ²	290.00 kg/cm		
		Average	300.52	Kg/Cm ²			
		28 th day	294.48	Kg/Cm ²			
30	Cement concrete cube of mix M25 , cast on	compressive	308.08	Kg/Cm ²	290.00 Kg/cm ²	2.33	do
30	28/09/2022. RCC for Tank of delivery tank.	strength	287.69	Kg/Cm ²	290.00 kg/cm	2.33	u0
		Average	296.75	Kg/Cm ²			
		28 th day	308.08	Kg/Cm ²			
31	Cement concrete cube of mix M25 , cast on	compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²	2.85	do
31	28/09/2022. RCC for Tank of delivery tank.	strength	280.89	Kg/Cm ²	290.00 kg/cm	2.00	d0
		Average	298.26	Kg/Cm ²			
		28 th day	305.81	Kg/Cm ²		3.37	do
32	Cement concrete cube of mix M25 , cast on	compressive	289.95	Kg/Cm ²	290.00 Kg/cm ²		
32	28/09/2022. RCC for Tank of delivery tank.	strength	303.55	Kg/Cm ²	290.00 kg/ciii		
		Average	299.77	Kg/Cm ²			
		28 th day	289.95	Kg/Cm ²			do
33	Cement concrete cube of mix M25 , cast on	compressive	296.75	Kg/Cm ²	290.00 Kg/cm ²	2.85	
33	28/09/2022. RCC for Tank of delivery tank.	strength	308.08	Kg/Cm ²	290.00 kg/cm		
		Average	298.26	Kg/Cm ²			
		28 th day	283.16	Kg/Cm ²		1.29	
34	Cement concrete cube of mix M25 , cast on	compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²		do
34	28/09/2022. RCC for Tank of delivery tank.	strength	292.22	Kg/Cm ²	290.00 kg/cm		
		Average	293.73	Kg/Cm ²			
		28 th day	285.42	Kg/Cm ²		2.59	do
35	Cement concrete cube of mix M25 , cast on 28/09/2022. RCC for Tank of delivery tank.	compressive	305.81	Kg/Cm ²	290.00 Kg/cm ²		
33		strength	301.28	Kg/Cm ²	290.00 kg/cm		
		Average	297.50	Kg/Cm ²			
		28 th day	317.14	Kg/Cm ²		5.97	do
36	Cement concrete cube of mix M25 , cast on	compressive	289.95	Kg/Cm ²	290.00 Kg/cm ²		
30	28/09/2022. RCC for Tank of delivery tank.	strength	314.87	Kg/Cm ²	270.00 Ng/CIII		
		Average	307.32	Kg/Cm ²			

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

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