GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :3166,3167,3177,3178,3190,3191,3199,3200,3207,3208, Lab / **319** / 2021 - 22 Dated: -05/03/2022. Laboratory : Bicholim - Goa. 3212,3213,3218,3219,3235,3236,3241,3242,3249,3250,3255,3256,3273,3274,3293,3294,3302,3303,3329 & 3330 Sub Division V (QC)/WRD/ Bicholim - Goa.

Name of work: Construction of retaining wall from Foro Manas to Rufino house at Church waddo in V.P. St. Estevam in Cumbharjua Constituency Tiswadi Taluka. Ref. to Requisition No.: S.D.I/WDI/WRD/F.57/21-22/554 Dt.:- 08/ 02/ 2022

Oty. Recived.: 30 Sets of cube Date of Receipt:- 11/ 02 / 2022. Tested on: 12,14,15,16,17,18,19,22,24,25,26 & 28/02/2022, 02,03 & 04/03/2022as per due dates. Ref to CPWD Sample: Cube Mix 1: 2: 4 O.S No.: 7641,7642,7652,7653,7669,7670,7681,7682,7693,7694,7699,7700,7711,7731,7732,7738,7739,7746,7747/SS & 127,128/RK & 7759,7760,7782,7783,7791,7792,7800,7801 Lab. Sample No.: 2962 To 2991 Tested By: Mrs.Shirodkar. J.E.

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SR.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		DESTILLS		DECLIETS		DECLIETS		DESITITS Max./M		Max./Min.Value	% above or	REMARK
NO	DISCRIPTION OF SAMMEL	ILSILDION			permissable	below	KLIVIAKK								
1	Cement concrete cube of mix 1:2:4, cast on 15/01/2022. For Foundation & Plinth.	28 th day	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.63	Oty represents -35.00 Cum for two sets of cubes.								
		compressive	235.59	Kg/Cm ²											
'		strenath	210.67	Kg/Cm ²											
		Average	219.73	Kg/Cm ²											
	Cement concrete cube of mix 1:2:4, cast on 15/01/2022. For Foundation & Plinth.	28 th day	217.47	Kg/Cm ²		8.23									
2		compressive	228.79	Kg/Cm ²	210.00 Kg/cm ²		do								
		strenath	235.59	Kg/Cm ²	210.00 kg/cm		uu								
		Average	227.28	Kg/Cm ²											
	Cement concrete cube of mix 1:2:4, cast on 17/01/2022. For Foundation & Plinth.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	10.03	Oty represents -31.00 Cum for two sets of cubes.								
3		compressive	222.00	Kg/Cm ²											
3		strength	244.65	Kg/Cm ²											
		Average	231.06	Kg/Cm ²											
	Cement concrete cube of mix 1:2:4, cast on 17/01/2022. For Foundation & Plinth.	28 th day	208.40	Kg/Cm ²	210.00 Kg/cm ²	2.48	do								
1		compressive	219.73	Kg/Cm ²											
4		strenath	217.47	Kg/Cm ²											
		Average	215.20	Kg/Cm ²											
	Cement concrete cube of mix 1:2:4, cast on 18/01/2022. For 1st Lift.	28 th day	212.93	Kg/Cm ²	- 210.00 Kg/cm ²	8.23	Oty represents -35.00 Cum for two sets of cubes.								
5		compressive	235.59	Kg/Cm ²											
5		strength	233.32	Kg/Cm ²											
		Average	227.28	Kg/Cm ²											
	Cement concrete cube of mix 1:2:4, cast on 18/01/2022. For 1st Lift.	28 th day	226.53	Kg/Cm ²											
6		compressive	219.73	Kg/Cm ²	210.00 Kg/cm ²	8.59	do								
0		strenath	237.85	Kg/Cm ²			do								
		Average	228.04	Kg/Cm ²											

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		RESULTS		Max./Min.Value permissable	% above or below	REMARK
		28 th day	237.85	Kg/Cm ²					
7	Cement concrete cube of mix 1:2:4, cast on 19/01/2022. For 1st Lift.	compressive	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 32.00 Cum for two sets of cubes.		
		strenath	219.73	Kg/Cm ²					
-		Average	223.51	Kq/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 19/01/2022. For 1st Lift.	28 th day	222.00	Kg/Cm ²	210.00 Kg/cm ²	8.23	do		
8		compressive	233.32 226.53	Kg/Cm ²					
		strength Average	227.28	Kg/Cm ²					
		28 th day	215.20	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on	compressive	219.73	Kg/Cm ²			Qty represents - 35.00 Cum for two sets of cubes.		
9	20/01/2022. For Foundation & Plinth.	strenath	244.65	Kg/Cm ²	210.00 Kg/cm ²	7.87			
		Average	226.53	Kq/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 20/01/2022. For Foundation & Plinth.	28 th day	226.53	Ka/Cm ²	210.00 Kg/cm ²	3.91	do		
10		compressive	208.40	Ka/Cm ²					
		Average	219.73 218.22	Kg/Cm ²					
		28 th day	217.47	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 21/01/2022. For Foundation & Plinth.	compressive	215.20	Kg/Cm ²	210.00 Kg/cm ²	1.04	Oty represents -35.00 Cum for two sets of cubes.		
11		strength	203.87	Kg/Cm ²					
		Average	212.18	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 21/01/2022. For Foundation & Plinth.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.90	do		
		compressive	237.85	Kg/Cm ²					
12		strength	246.91	Kg/Cm ²					
		Average	237.10	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 22/01/2022. For Foundation & Plinth.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.87	Oty represents - 30.00 Cum for two sets of cubes.		
		compressive	235.59	Kg/Cm ²					
13		strength	217.47	Kg/Cm ²					
		Average	226.53	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 22/01/2022. For Foundation & Plinth.	28 th day	231.06	Kg/Cm ²		5.71	do		
		compressive	215.20	Kg/Cm ²	210.00 Kg/cm ²				
14		strength	219.73	Kg/Cm ²					
		Average	222.00	Kg/Cm ²					

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
15	Cement concrete cube of mix 1:2:4, cast on 25/01/2022. For Foundation & Plinth.	28 th day	212.93	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 34.00 Cum for two sets of cubes.
		compressive strength	237.85	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	228.79	Kg/Cm ²	-		
	Cement concrete cube of mix 1:2:4, cast on 25/01/2022. For Foundation & Plinth.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²		
		compressive strength	208.40	Kg/Cm ²			
16			219.73	Kg/Cm ²		3.91	do
		Average	218.22	Kg/Cm ²	-	1	
		28 th day	237.85	Kg/Cm ²		6.43	Oty represents - 33.00 Cum for two sets of cubes.
17	Cement concrete cube of mix 1:2:4, cast on	compressive	219.73	Kg/Cm ²	210.00 Kg/cm ²		
17	27/01/2022. For 2nd Lift.	strength	212.93	Kg/Cm ²			
		Average	223.51	Kg/Cm ²			
	Cement concrete cube of mix 1:2:4, cast on 27/01/2022. For 2nd Lift.	28 th day	203.87	Kg/Cm ²	210.00 Kg/cm ²	3.55	do
18		compressive	219.73	Kg/Cm ²			
'		strenath	228.79	Kg/Cm ²			
		Average	217.47	Kg/Cm ²			
	Cement concrete cube of mix 1:2:4, cast on 28/01/2022. For 2nd Lift.	28 th day	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.63	Oty represents -30.00 Cum for two sets of cubes.
19		compressive	210.67	Kg/Cm ²			
		strength	233.32	Kg/Cm ²			
		Average	219.73	Kg/Cm ²			
	Cement concrete cube of mix 1:2:4, cast on 28/01/2022. For 2nd Lift.	28 th day	208.40	Kg/Cm ²	_	3.55	do
20		compressive	226.53	Kg/Cm ²	210.00 Kg/cm ²		
		strenath	217.47 217.47	Kg/Cm ²			
	Cement concrete cube of mix 1:2:4, cast on 29/01/2022. For Foundation & Plinth.	Average 28 th day	217.47	Kg/Cm ² Kg/Cm ²	210.00 Kg/cm ²	4.27	Oty represents -33.00 Cum for two sets of cubes.
		compressive	210.67	Kg/Cm ²			
21		strenath	217.47	Kg/Cm ²			
		Average	218.98	Kg/Cm ²			
22	Cement concrete cube of mix 1:2:4, cast on 29/01/2022. For Foundation & Plinth.	28 th day	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.99	do
		compressive	215.20	Kg/Cm ²			
		strength	210.67	Kg/Cm ²			
		Average	220.49	Kg/Cm ²			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		RESULTS		Max./Min.Value permissable	% above or	REMARK
140		28 th day	226.53	Kg/Cm ²	permissable	DCIONI			
23	Cement concrete cube of mix 1:2:4, cast on 31/01/2022. For Foundation & Plinth.	compressive	237.85	Kg/Cm ²	210.00 Kg/cm ²		Oty represents - 35.00 Cum for two sets of cubes.		
		strength Average	215.20	Kg/Cm ²		7.87			
			226.53	Kg/Cm ²					
		28 th day	228.79	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 31/01/2022. For Foundation & Plinth.	compressive	237.85	Kg/Cm ²	210.00 Kg/cm ²				
24		strength	231.06	Kg/Cm ²		10.75	do		
		Average	232.57	Kg/Cm ²	-	İ			
		28 th day	222.00	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on	compressive	231.06	Kg/Cm ²	_	4.27			
25	02/02/2022. For 3rd Lift.	strength	203.87	Kg/Cm ²	210.00 Kg/cm ²		Qty represents - 30.00 Cum for two sets of cubes.		
		Average	218.98	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 02/02/2022. For 3rd Lift.	28 th day	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.23	do		
26		compressive	212.93	Kg/Cm ²					
20		strenath	237.85	Kg/Cm ²					
		Average	227.28	Kq/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 03/02/2022. For 3rd Lift.	28 th day	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.27	Oty represents - 36.00 Cum for two sets of cubes.		
27			226.53	Kg/Cm ²					
		strength	217.47	Kg/Cm ²					
		Average	218.98	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 03/02/2022. For 3rd Lift.	28 th day	237.85	Kg/Cm ²					
28			Kg/Cm ²	210.00 Kg/cm ²	6.43	do			
20		strength	219.73	Kg/Cm ²	210.00 kg/cm	0.43	uo		
		Average	223.51	Kg/Cm ²					
	Cement concrete cube of mix 1:2:4, cast on 04/02/2022. For 3rd Lift.	28 th day	226.53	Kg/Cm ²	210.00 Kg/cm ²	11.11	Oty represents - 35.00 Cum for two sets of cubes.		
29		compressive	244.65	Kg/Cm ²					
27		strength	228.79	Kg/Cm ²					
		Average	233.32	Kg/Cm ²					
30	Cement concrete cube of mix 1:2:4, cast on 04/02/2022. For 3rd Lift.	28 th day	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.87	do		
		compressive	237.85	Kg/Cm ²					
		strenath	226.53	Kg/Cm ²					
		Average	226.53	Kg/Cm ²					

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