

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 4522,4523,4560,4561,4576,4577,4594,4595,/ Lab /117/ 2022 - 23 Dated:- 08/06/2022.

Laboratory : Bicholim - Goa.

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

Name of work : Construction of Protection wall for Nalla from Shri Amrut Pednekar House to Shri Kishor Patil House at Chinch - Bhatwadi, Mayem in Survey No 185 of Bicholim Taluka.

Ref. to Requisition No.:F /WRD/WDVI/SDI/58/2022-23 Dt.:- 16/ 05/ 2022

Qty. Recived. : 26 Sets of cube Date of Receipt:- 16/05/ 2022. Tested on:-16,18,19,20,21,24,25,27,28,30/05/2022, 01,03 & 04/06/2022as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** O.S No. :8478,8479,8515,8516,8533,8534,8552,8553,8575,8576,8607,8608,8621,8622,8655,8656,8667,8668,8683,8684,8689,8690,8729,8730,8761 & 8762/SS Lab. Sample No.: **4481 to 4506** Tested By: Mrs. S.B. Naik Shirodkar. J.E.

Cube test witnessed by Shri Hamsa Sagar representative by agency M/s Cherkala Constructions, Ponda-Goa on 19/05/2022.

REPORT PAGE 01 OF 04

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
1	Cement concrete cube of mix 1 : 2: 4 , cast on 18/04/2022. PCC for Foundation of LHS wall from Ch 0m to Ch 20m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	212.93	Ka/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 20.00 Cum.
			226.53	Ka/Cm ²			
			210.67	Kg/Cm ²			
		Average	216.71	Ka/Cm²			
2	Cement concrete cube of mix 1 : 2: 4 , cast on 18/04/2022. PCC for Foundation of LHS wall from Ch 20m to Ch 36m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	226.53	Ka/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 20.00 Cum.
			208.40	Ka/Cm ²			
			219.73	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2: 4 , cast on 20/04/2022. PCC for Foundation of LHS wall from Ch 36m to Ch 60m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	235.59	Ka/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 22.00 Cum.
			212.93	Ka/Cm ²			
			226.53	Kg/Cm ²			
		Average	225.02	Ka/Cm²			
4	Cement concrete cube of mix 1 : 2: 4 , cast on 20/04/2022. PCC for Foundation of LHS wall from Ch 60m to Ch 80m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	228.79	Ka/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 18.00 Cum.
			226.53	Ka/Cm ²			
			208.40	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
5	Cement concrete cube of mix 1 : 2: 4 , cast on 21/04/2022. PCC for Foundation of LHS wall from Ch 80m to Ch 100m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	235.59	Ka/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 18.00 Cum.
			215.20	Ka/Cm ²			
			203.87	Kg/Cm ²			
		Average	218.22	Ka/Cm²			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 04

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
6	Cement concrete cube of mix 1 : 2: 4 , cast on 21/04/2022. PCC for Foundation of LHS wall from Ch 100m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 18.00 Cum.
			231.06	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
7	Cement concrete cube of mix 1 : 2: 4 , cast on 22/04/2022. PCC for Foundation of LHS wall from Ch 120m to Ch 140m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 18.00 Cum.
			226.53	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 22/04/2022. PCC for Foundation of RHS wall from Ch 35m to Ch 60m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 23.00 Cum.
			210.67	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 23/04/2022. PCC for Foundation of RHS wall from Ch 60m to Ch 80m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents - 18.00 Cum.
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	221.24	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 23/04/2022. PCC for Foundation of RHS wall from Ch 80m to Ch 100m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	3.55	Qty represents - 18.00 Cum.
			203.87	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 26/04/2022. PCC for Foundation of RHS wall from Ch 100m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 18.00 Cum.
			235.59	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	225.02	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 26/04/2022. PCC for Foundation of RHS wall from Ch 120m to Ch 140m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 18.00 Cum.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	219.73	Kg/Cm²			

Junior Engineer

Assistant Engineer

REPORT PAGE 03 OF 04

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
13	Cement concrete cube of mix 1 : 2: 4 , cast on 27/04/2022. PCC for 1st step of LHS wall from Ch 0m to Ch 25m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 18.00 Cum.
			208.40	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	218.98			
14	Cement concrete cube of mix 1 : 2: 4 , cast on 27/04/2022. PCC for 1st step of LHS wall from Ch 25m to Ch 36m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 8.00 Cum.
			203.87	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	216.71			
15	Cement concrete cube of mix 1 : 2: 4 , cast on 29/04/2022. PCC for 1st step of LHS wall from Ch 36m to Ch 75m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 16.00 Cum.
			249.18	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	223.51			
16	Cement concrete cube of mix 1 : 2: 4 , cast on 29/04/2022. PCC for 1st step of RHS wall from Ch 35m to Ch 75m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 16.00 Cum.
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
			Average	225.02			
17	Cement concrete cube of mix 1 : 2: 4 , cast on 30/04/2022. PCC for 1st step of LHS wall from Ch 75m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 18.00 Cum.
			226.53	Kg/Cm ²			
			201.61	Kg/Cm ²			
			Average	224.26			
18	Cement concrete cube of mix 1 : 2: 4 , cast on 30/04/2022. PCC for 1st step of RHS wall from Ch 75m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 18.00 Cum.
			212.93	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	215.95			
19	Cement concrete cube of mix 1 : 2: 4 , cast on 02/05/2022. PCC for 1st step of LHS wall from Ch 120m to Ch 140m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 8.00 Cum.
			215.20	Kg/Cm ²			
			246.91	Kg/Cm ²			
			Average	222.00			
20	Cement concrete cube of mix 1 : 2: 4 , cast on 02/05/2022. PCC for 1st step of RHS wall from Ch 120m to Ch 140m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents - 8.00 Cum.
			237.85	Kg/Cm ²			
			251.44	Kg/Cm ²			
			Average	234.83			

Junior Engineer

Assistant Engineer

REPORT PAGE 04 OF 04

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
21	Cement concrete cube of mix 1 : 2: 4 , cast on 04/05/2022. PCC for foundation of RHS wall from Ch 140m to Ch 160m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	201.61	Kg/Cm ²	210.00 Kg/cm ²	6.43	Qty represents - 18.00 Cum.
			235.59	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	223.51	Kg/Cm²			
22	Cement concrete cube of mix 1 : 2: 4 , cast on 04/05/2022. PCC for Foundation step of LHS wall from Ch 140m to Ch 160m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 18.00 Cum.
			231.06	Kg/Cm ²			
			203.87	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
23	Cement concrete cube of mix 1 : 2: 4 , cast on 06/05/2022. PCC for 2nd step of LHS wall from Ch 0m to Ch 36m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 11.00 Cum.
			217.47	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
24	Cement concrete cube of mix 1 : 2: 4 , cast on 06/05/2022. PCC for 2nd step of LHS wall from Ch 36m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	201.61	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 17.00 Cum.
			217.47	Kg/Cm ²			
			242.38	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
25	Cement concrete cube of mix 1 : 2: 4 , cast on 07/05/2022. PCC for 2nd step of RHS wall from Ch 36m to Ch 120m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 17.00 Cum.
			212.93	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
26	Cement concrete cube of mix 1 : 2: 4 , cast on 07/05/2022. PCC for 1st step of LHS wall from Ch 140m to Ch 160m (Nalla from Rajendra Kinalkar house to Verandra Mandrekar).	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 8.00 Cum.
			244.65	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	228.04	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD I , WDV I , WRD, Bicholim - 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 VI ,WRD, Bicholim- Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer