

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3316, 3317,3389,3390,3399,3400,3420,3421,3430,3431,/ Lab /04/ 2022 - 23 Dated:- 01/ 04/2022. Laboratory : Bicholim - Goa.
3438,3439,3445,3446,3452,3453,3470,3471,3478,3479,3492,3493,3505,3306,3519,3520,3531 & 3532 Sub Division V (QC)/WRD/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.236/WRD/WDVI/SDI/511/21-22 Dt.:- 02/ 03/ 2022

Qty. Recived. : 28 Sets of cube Date of Receipt:- 03-03 -2022. Tested on: - 03,08,09,11,12,13,14,15,16,17,18,19,21 & 22/03/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample:Cube Mix PCC 1:2:4 O.SNo.:151 & 152/R.K. ,7863,7864,7875,7876,7898,7899,7908,7909,7916,7917/SS,162 & 163/R.K. , 7925 & 7926/SS, 175 & 176/R.K. , 7939,7940,7952,7953,7966 & 7967/SS , 185 & 186/R.K. , 203 & 204/R.K. Lab. Sample No.: 3187 To 3214 Tested By: Mrs. R.R. Kadam A.E. & Mrs. S.B. Naik Shirodkar. J.E.

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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 03/02/2022. PCC for 1st step of R.H.S wall from Ch 220m to Ch 240m	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.55	Qty represents - 14.50 Cum.
			210.67	Kg/Cm ²			
			222.00	Kg/Cm ²			
		Average	217.47	Kg/Cm²			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 03/02/2022. PCC for 1st step of L.H.S wall from Ch 220m to Ch 240m	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 14.50 Cum.
			226.53	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 08/02/2022. PCC for foundation of L.H.S wall from Ch 240m to Ch 260m	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 20.00 Cum.
			217.47	Kg/Cm ²			
			206.14	Kg/Cm ²			
		Average	215.95	Kg/Cm²			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 08/02/2022. PCC for foundation of R.H.S wall from Ch 240m to Ch 260m	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents - 20.00 Cum.
			224.26	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 09/02/2022. PCC for foundation of L.H.S wall from Ch 260m to Ch 280m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 20.00 Cum.
			217.47	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	218.98	Kg/Cm²			
6	Cement concrete cube of mix 1 : 2 : 4 , cast on 09/02/2022. PCC for foundation of R.H.S wall from Ch 260m to Ch 280m	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	2.84	Qty represents - 20.00 Cum.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	215.95	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
7	Cement concrete cube of mix 1 : 2: 4 , cast on 11/02/2022. PCC for foundation of L.H.S wall from Ch 280m to Ch 300m	28 th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/cm ²	15.78	Qty represents - 20.00 Cum.
			249.18	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	243.14			
8	Cement concrete cube of mix 1 : 2: 4 , cast on 11/02/2022. PCC for foundation of R.H.S wall from Ch 280m to Ch 300m	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	16.86	Qty represents - 20.00 Cum.
			255.97	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	245.40			
9	Cement concrete cube of mix 1 : 2: 4 , cast on 12/02/2022. PCC for 1st step of R.H.S wall from Ch 240m to Ch 260m	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 14.50 Cum.
			203.87	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	218.22			
10	Cement concrete cube of mix 1 : 2: 4 , cast on 12/02/2022. PCC for 1st step of L.H.S wall from Ch 240m to Ch 260m	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	4.27	Qty represents - 14.50 Cum.
			212.93	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	218.98			
11	Cement concrete cube of mix 1 : 2: 4 , cast on 13/02/2022. PCC for 1st step of R.H.S wall from Ch 260m to Ch 280m	28 th day compressive strength	210.67	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 14.50 Cum.
			212.93	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	216.71			
12	Cement concrete cube of mix 1 : 2: 4 , cast on 13/02/2022. PCC for 1st step of L.H.S wall from Ch 260m to Ch 280m	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 14.50 Cum.
			237.85	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	230.30			
13	Cement concrete cube of mix 1 : 2: 4 , cast on 14/02/2022. PCC for foundation of R.H.S wall from Ch 300m to Ch 320m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 20.00 Cum.
			219.73	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	225.77			
14	Cement concrete cube of mix 1 : 2: 4 , cast on 14/02/2022. PCC for foundation of L.H.S wall from Ch 300m to Ch 320m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 20.00 Cum.
			208.40	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	216.71			

Junior Engineer

Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
15	Cement concrete cube of mix 1 : 2: 4 , cast on 15/02/2022. PCC for foundation of R.H.S wall from Ch 320m to Ch 340m	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 20.00 Cum.
			226.53	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	216.71			
16	Cement concrete cube of mix 1 : 2: 4 , cast on 15/02/2022. PCC for foundation of R.H.S wall from Ch 320m to Ch 340m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.55	Qty represents - 20.00 Cum.
			206.14	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	217.47			
17	Cement concrete cube of mix 1 : 2: 4 , cast on 16/02/2022. PCC for 1st step of R.H.S wall from Ch 280m to Ch 300m	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	7.87	Qty represents - 14.50 Cum.
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	226.53			
18	Cement concrete cube of mix 1 : 2: 4 , cast on 16/02/2022. PCC for 1st step of L.H.S wall from Ch 280m to Ch 300m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents - 14.50 Cum.
			215.20	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	225.02			
19	Cement concrete cube of mix 1 : 2: 4 , cast on 17/02/2022. PCC for foundtion of R.H.S wall from Ch 340m to Ch 360m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	13.98	Qty represents - 20.00 Cum.
			260.51	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	239.36			
20	Cement concrete cube of mix 1 : 2: 4 , cast on 17/02/2022. PCC for foundtion of L.H.S wall from Ch 340m to Ch 360m	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 20.00 Cum.
			212.93	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	227.28			
21	Cement concrete cube of mix 1 : 2: 4 , cast on 18/02/2022. PCC for 1st step of R.H.S wall from Ch 300m to Ch 330m	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 22.00 Cum.
			228.79	Kg/Cm ²			
			203.87	Kg/Cm ²			
			Average	219.73			
22	Cement concrete cube of mix 1 : 2: 4 , cast on 18/02/2022. PCC for 1st step of L.H.S wall from Ch 300m to Ch 330m	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 22.00 Cum.
			208.40	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	218.22			

Junior Engineer

Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
23	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/02/2022. PCC for 2nd step of L.H.S wall from Ch 240m to Ch 300m	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	5.71	Qty represents - 18.00 Cum.
			206.14	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	222.00			
24	Cement concrete cube of mix 1 : 2 : 4 , cast on 19/02/2022. PCC for 2nd step of R.H.S wall from Ch 55m to Ch 100m	28 th day compressive strength	206.14	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 18.00 Cum.
			219.73	Kg/Cm ²			
			224.26	Kg/Cm ²			
			Average	216.71			
25	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/02/2022. PCC for foundation of R.H.S wall from Ch 360m to Ch 380m	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 20.00 Cum.
			237.85	Kg/Cm ²			
			228.79	Kg/Cm ²			
			Average	233.32			
26	Cement concrete cube of mix 1 : 2 : 4 , cast on 21/02/2022. PCC for foundation of L.H.S wall from Ch 360m to Ch 380m	28 th day compressive strength	228.79	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 20.00 Cum.
			224.26	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	229.55			
27	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/02/2022. PCC for 1st step of R.H.S wall from Ch 330m to Ch 360m	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 22.00 Cum.
			226.53	Kg/Cm ²			
			228.79	Kg/Cm ²			
			Average	222.75			
28	Cement concrete cube of mix 1 : 2 : 4 , cast on 22/02/2022. PCC for 1st step of L.H.S wall from Ch 330m to Ch 360m	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 22.00 Cum.
			224.26	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	228.04			

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 , WDV I ,WRD, Bicholim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer