

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 2864,2865,2868,2869,2870/ Lab /250/ 2021 - 22 Dated:- 05 / 01 /2022.  
2871,2874 2875,2876,2877,2879,2880,2883,2884,2887 & 2888

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

**Name of work : Construction of Protection wall for Nalla on both sides from main road to Sagun Sinari House and Govind Parab house to shekri, at Pimpalwada, Amona in Bicholim taluka.**

Ref. to Requisition No.: F.226/WRD/WDVI/SDI/378/2021-22 Dt.:- 16/ 12 /2021.

Qty. Received. : 16 Sets of cube Date of Receipt:- 17/ 12/ 2021. Tested on: -20,21,22,23,24,25,27 & 28/12/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix RCC 1:2:4 O.S No. :7212,7213,7217,7218,7219,7220,7223,7224,7228,7229,7233,7234,7239,7240,7245 & 7246/SS Lab. Sample No.: 2492To 2507 Tested By: Mrs S.B. Shirodkar. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
1	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 22/11/2021. PCC for foundation of R.H.S wall from Ch 160m to Ch 170m	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 18.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 22/11/2021. PCC for foundation of L.H.S wall from Ch 160m to Ch 170m	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents - 18.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>217.47</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 23/11/2021. PCC for foundation of R.H.S wall from Ch 170m to Ch 180m	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents - 18.00 Cum.
			206.14	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>217.47</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 23/11/2021. PCC for foundation of L.H.S wall from Ch 170m to Ch 180m	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.95	Qty represents - 18.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.79</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 24/11/2021. PCC for foundation of R.H.S wall from Ch 190m to Ch 200m	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 18.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			

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
6	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 24/11/2021. PCC for foundation of L.H.S wall from Ch 180m to Ch 200m	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.67	Qty represents - 36.00 Cum.
			244.65	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>230.30</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 25/11/2021. PCC for 1st step of L.H.S wall from Ch 160m to Ch 180m	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 27.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 25/11/2021. PCC for 1st step of R.H.S wall from Ch 160m to Ch 180m	28 <sup>th</sup> day compressive strength	206.14	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	Qty represents - 27.00 Cum.
			240.12	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 26/11/2021. PCC for 1st step of L.H.S wall from Ch 180m to Ch 200m	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 27.00 Cum.
			244.65	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 26/11/2021. PCC for 1st step of R.H.S wall from Ch 180m to Ch 200m	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.84	Qty represents - 27.00 Cum.
			228.79	Kg/Cm <sup>2</sup>			
			201.61	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.95</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 27/11/2021. PCC for 2nd step of L.H.S wall from Ch 160m to Ch 185m	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 22.50 Cum.
			240.12	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.81</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 27/11/2021. PCC for 2nd step of R.H.S wall from Ch 160m to Ch 185m	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 22.50 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 29/11/2021. PCC for 2nd step of L.H.S wall from Ch 185m to Ch 210m	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 22.50 Cum.
			212.93	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm<sup>2</sup></b>			

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
14	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 29/11/2021. PCC for 2nd step of R.H.S wall from Ch 185m to Ch 210m	28 <sup>th</sup> day compressive strength	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	14.70	Qty represents - 22.50 Cum.
			244.65	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>240.87</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 30/11/2021. PCC for foundation of R.H.S wall from Ch 350m to Ch 360m	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	Qty represents - 18.00 Cum.
			210.67	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 30/11/2021. PCC for foundation of L.H.S wall from Ch 350m to Ch 360m	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 18.00 Cum.
			224.26	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></b>			

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

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