

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 2952,2953,2954,2955,2956/ Lab /266/ 2021 - 22 Dated:- 21/ 01/2022.  
2957,2958,2959,2960,2976,2977,2978,2987,2988 & 2989

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/429/21-22 Dt.:- 15/ 01/ 2022

Qty. Recived. : 15 Sets of cube Date of Receipt:- 15/01/ 2022. Tested on: -15,16,17,18 & 19/01/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1:2:4 O.S No. :7353,7354,7355,7356,7357,7358,7360,7361,7362,7382,7383,7384,7395,7396 & 7397/SS Lab. Sample No.: 2722 To 2736 Tested By: Mrs. S.B. Naik 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 18/12/2021. PCC for foundation of R.H.S wall from Ch 360m to Ch 370m	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.84	Qty represents - 18.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.95</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/12/2021. PCC for foundation of L.H.S wall from Ch 360m to Ch 370m	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.27	----- do -----
			208.40	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.98</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/12/2021. PCC for 3rd step of L.H.S wall from Ch 160m to Ch 230m	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents - 14.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.22</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 19/12/2021. PCC for 3rd step of R.H.S wall from Ch 160m to Ch 230m	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.48	----- do -----
			222.00	Kg/Cm <sup>2</sup>			
			203.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.20</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 19/12/2021. PCC for foundation of R.H.S wall from Ch 370m to Ch 380m	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	Qty represents - 18.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			203.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</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 19/12/2021. PCC for foundation of L.H.S wall from Ch 370m to Ch 380m	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents - 18.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 20/12/2021. PCC for 1st step of L.H.S wall from Ch 350m to Ch 370m	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.18	Qty represents - 27.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>235.59</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 20/12/2021. PCC for 1st step of R.H.S wall from Ch 350m to Ch 370m	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	----- do -----
			219.73	Kg/Cm <sup>2</sup>			
			233.32	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 20/12/2021. PCC for foundation of L.H.S wall from Ch 380m to Ch 390m	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	Qty represents - 18.00 Cum.
			199.34	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 21/12/2021. PCC for foundation of L.H.S wall from Ch 390m to Ch 400m	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	----- do -----
			219.73	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 21/12/2021. PCC for foundation of R.H.S wall from Ch 380m to Ch 400m	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents - 36.00 Cum.
			203.87	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 21/12/2021. PCC for 2nd step of R.H.S wall from Ch 350m to Ch 370m	28 <sup>th</sup> day compressive strength	271.83	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	20.45	Qty represents - 18.00 Cum.
			251.44	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>252.95</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 22/12/2021. PCC for 2nd step of L.H.S wall from Ch 350m to Ch 370m	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	----- do -----
			226.53	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>217.47</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 22/12/2021. PCC for foundation of L.H.S wall from Ch 400m to Ch410m	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents - 18.00 Cum.
			203.87	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 22/12/2021. PCC for foundation of R.H.S wall from Ch 400m to Ch 410m	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	----- do -----
			231.06	Kg/Cm <sup>2</sup>			
			206.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			

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

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