

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 1657,1658,1692,1693,1699,1700,1717,1718/ Lab /52 / 2021 - 22 Dated:- 03/05/ 2021. Laboratory : Bicholim -  
,1733,1734 ,1740,1741,1822,1823,1850,1851 Sub Division V (QC)/WRD/

**Name of work:- Construction of flood protection wall for Orando river from Orando Jetty to Shri Madhu Halankar house at Oranda,Madel Chodan in Bicholim Taluka.**

Ref. to Requisition No.: F.230/WRD/WDVI/SDI/11/2020-21 Dated :- 05/ 04 / 2021.

Qty. Recived. :16 Sets of cube Date of Receipt:- 05/04/ 2021. Tested on: -12,14,15,16,19,20,29/04/2021 & 01/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1 :2 :4 O.S No.: 5825,5826,5861,5862,5869,5870,5889,5890,5915,5916,5924,5925,6025,6026,6060,6061/SS. Lab.Sample No.: 1092 To 1107 Tested By: Mrs. Shirodkar. J.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1 :2 : 4</b> , cast on 15/03/2021. PCC for Foundation of Ret wall from ch 0 to 10m.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	Qty represents - 26.00 Cum.
			237.85	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>234.83</b>			
2	Cement concrete cube of mix <b>1 :2 : 4</b> , cast on 15/03/2021. PCC for Foundation of Ret wall from ch 10 to 20m.	28 <sup>th</sup> day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.26	Qty represents - 26.00 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>237.85</b>			
3	Cement concrete cube of mix <b>1 :2 : 4</b> , cast on 17/03/2021. PCC for Foundation of Ret wall from ch 20 to 30m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 26.00 Cum.
			215.20	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.02</b>			
4	Cement concrete cube of mix <b>1 :2 : 4</b> , cast on 17/03/2021. PCC for Foundation of Ret wall from ch 30 to 40m.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 26.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.77</b>			
5	Cement concrete cube of mix <b>1 :2 : 4</b> , cast on 18/03/2021. PCC for Foundation of Ret wall from ch 40 to 50m.	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	Qty represents - 26.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.75</b>			

Junior Engineer

Assistant Engineer

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<b>SR. NO.</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
6	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/03/2021. PCC for Foundation of Ret wall from ch 50 to 60m.	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 - 26.00 Cum.
			222.00	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.00</b>			
7	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 19/03/2021. PCC for 1 <sup>st</sup> step of Ret wall from ch 0 to 20mtr.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 27.00 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>223.51</b>			
8	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 19/03/2021. PCC for 1 <sup>st</sup> step of Ret wall from ch 20 to 40mtr.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 27.00 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>226.53</b>			
9	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 22/03/2021. PCC for Foundation of Ret wall from ch 60 to 70m.	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 26.00 Cum.
			212.93	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			
10	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 22/03/2021. PCC for Foundation of Ret wall from ch 70 to 80m.	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 26.00 Cum.
			224.26	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.00</b>			
11	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 23/03/2021. PCC for 1 <sup>st</sup> step of Ret wall from ch 40 to 60mtr.	28 <sup>th</sup> day compressive strength	228.79	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 27.00 Cum.
			228.79	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.02</b>			
12	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 23/03/2021. PCC for 2 <sup>nd</sup> step of Ret wall from ch 0 to 40mtr.	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 36.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.00</b>			
13	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 01/04/2021. PCC for Foundation of Ret wall from ch 80 to 90m.	28 <sup>th</sup> day compressive strength	228.79	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.18	Qty represents - 26.00 Cum.
			242.38	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>235.59</b>			

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<b>SR. NO.</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
14	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 01/04/2021. PCC for 1 <sup>st</sup> step of Ret wall from ch 50 to 80mtr.	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.14	Qty represents - 27.00 Cum.
			244.65	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>243.89</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 03/04/2021. PCC for Foundation of Ret wall from ch 90 to 100m.	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	21.17	Qty represents - 26.00 Cum.
			253.71	Kg/Cm <sup>2</sup>			
			249.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>254.46</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 03/04/2021. PCC for 1 <sup>st</sup> step of Ret wall from ch 60 to 80mtr.	28 <sup>th</sup> day compressive strength	242.38	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.74	Qty represents - 27.00 Cum.
			249.18	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>251.44</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SDI , WD VI, 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