

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 547,562,576,636,637,673,686/ Lab /**238** / 2020 - 21 Dated:- 10/02 / 2021. Laboratory : Bicholim - Goa.  
732,733,754,791,792 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work:-Renovation to the Existing open irrigation channel from Siya temple to Konat farm at Surla in Bicholim Taluka.**

Ref. to Requisition No.: WRD/WDVI/SDI/F.228/2020-21/408 Dated :- 01/ 01 / 2021.

Qty. Received. :13 Sets of cube Date of Receipt:- 02/01/ 2021. Tested on: -06,07,08,12,14,15,20,23 & 28/01/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 :2 :4 O.S No.:4592,4606,4617,4667,4668,4700,4713,4748,4749,4769,4770,4812,4813/SS. Lab.Sample No.:9957 To 9969 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

**REPORT PAGE 01 OF 03**

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 09/12/2020. For Bed PCC from ch 0 to 55m.	28 <sup>th</sup> day compressive strength	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.42	Qty represents - 14.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>242.38</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 10/12/2020. For Bed PCC from ch 110 to 155m.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.47	Qty represents - 13.00 Cum.
			224.26	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>234.08</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 11/12/2020. For Bed PCC from ch 155 to 205m.	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.14	Qty represents - 14.00 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>243.89</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 15/12/2020. For Bed PCC from ch 205 to 255m.	28 <sup>th</sup> day compressive strength	242.38	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.86	Qty represents - 14.00 Cum.
			262.77	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>245.40</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 :2 :4</b> , cast on 15/12/2020. For Bed PCC from ch 205 to 255m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.18	Qty represents - 14.00 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>235.59</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

**REPORT PAGE 02 OF 03**

<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 17/12/2020. For Bed PCC from ch 255 to 300m.	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.75	Qty represents - 13.00 Cum.
			246.91	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>232.57</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 18/12/2020. For Bed PCC from ch 300 to 350m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.62	Qty represents - 14.00 Cum.
			258.24	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>238.61</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 23/12/2020. For Side wall both side from ch 0 to 50m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	Qty represents - 26.00 Cum.
			246.91	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>234.83</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 23/12/2020. For Side wall both side from ch 0 to 50m.	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 - 26.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			222.00	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/12/2020. For Side wall both side from ch 110 to 150m.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.50	Qty represents - 19.00 Cum.
			262.77	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>244.65</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/12/2020. For Side wall both side from ch 110 to 150m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 19.00 Cum.
			240.12	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.10</b>	<b>Kg/Cm<sup>2</sup></b>			

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**REPORT PAGE 03 OF 03**

<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>
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/12/2020. For Side wall both side from ch 150 to 200m.	28 <sup>th</sup> day compressive strength	226.53	K <sub>σ</sub> /Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 26.00 Cum.
			235.59	K <sub>σ</sub> /Cm <sup>2</sup>			
			233.32	K <sub>σ</sub> /Cm <sup>2</sup>			
		<b>Average</b>	<b>231.81</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/12/2020. For Side wall both side from ch 150 to 200m.	28 <sup>th</sup> day compressive strength	226.53	K <sub>σ</sub> /Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 26.00 Cum.
			246.91	K <sub>σ</sub> /Cm <sup>2</sup>			
			215.20	K <sub>σ</sub> /Cm <sup>2</sup>			
		<b>Average</b>	<b>229.55</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.

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