

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2358,2359,2360,2368,2369,2370/ Lab /133/ 2021 - 22 Dated:-30/06/ 2021. Laboratory : Bicholim - Goa.  
2375,2376,2377,2396,2397,2398,2416,2417,2418,2434,2435,2436 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work :Construction of Pilgao-Narve Distributory of LBMC of TIP from ch.4.825km to ch.8670m at village Pilgao and Narve in Bicholim Taluka.(Modified Balance Work).**

Ref. to Requisition No.: SDII/WDVIII/WRD/F.160/2020-21/19 Dated :- 23/ 06/ 2021.

Qty. Recived. : 18 Sets of cube Date of Receipt:- 23/ 06 / 2021. Tested on: -23 to 28/06/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No. :6591,6592,6593,6603,6604,6605,6612,6613,6614,6635,6636,6637,6655,6656,6657,6674,6675,6676/SS

Lab. Sample No.: 1973 To 1990 Tested By: Mrs.Shirodkar. J.E.

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SR. NO	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 26/05/2021. For Ch.7.970km to Ch.8.000km.	28 <sup>th</sup> day compressive strenath	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents -74.00 Cum for three sets of cubes.
			226.53	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>224.26</b>			
2	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/05/2021. For Ch.7.970km to Ch.8.000km.	28 <sup>th</sup> day compressive strenath	253.71	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	----- do -----
			226.53	Kg/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>236.34</b>			
3	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/05/2021. For Ch.7.970km to Ch.8.000km.	28 <sup>th</sup> day compressive strenath	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.50	----- do -----
			253.71	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>244.65</b>			
4	Cement concrete cube of mix <b>1:2:4</b> , cast on 27/05/2021. For Ch.8.000km to Ch.8.125km.	28 <sup>th</sup> day compressive strenath	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.58	Qty represents -76.00 Cum for three sets of cubes.
			244.65	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>246.91</b>			
5	Cement concrete cube of mix <b>1:2:4</b> , cast on 27/05/2021. For Ch.8.000km to Ch.8.125km.	28 <sup>th</sup> day compressive strenath	242.38	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	----- do -----
			240.12	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>236.34</b>			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix <b>1:2:4</b> , cast on 27/05/2021. For Ch.8.000km to Ch.8.125km.	28 <sup>th</sup> day compressive strenath	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.26	Qty represents -76.00 Cum for three sets of cubes.
			244.65	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.85</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 28/05/2021. For Ch.8.220km to Ch.8.333km.	28 <sup>th</sup> day compressive strenath	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.62	Qty represents -72.00 Cum for three sets of cubes.
			240.12	Kg/Cm <sup>2</sup>			
			226.53	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 28/05/2021. For Ch.8.220km to Ch.8.333km.	28 <sup>th</sup> day compressive strenath	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	22.25	----- do -----
			271.83	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>256.73</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 28/05/2021. For Ch.8.220km to Ch.8.333km.	28 <sup>th</sup> day compressive strenath	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.86	----- do -----
			242.38	Kg/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>245.40</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 29/05/2021. For Ch.8.358km to Ch.8.488km and PCC pipe bed.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.67	Qty represents -75.00 Cum for three sets of cubes.
			215.20	Kg/Cm <sup>2</sup>			
			249.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>230.30</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 29/05/2021. For Ch.8.358km to Ch.8.488km and PCC pipe bed.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	----- do -----
			226.53	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 29/05/2021. For Ch.8.358km to Ch.8.488km and PCC pipe bed.	28 <sup>th</sup> day compressive strength	253.71	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	14.70	----- do -----
			233.32	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>240.87</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 30/05/2021. For Ch.8.488km to Ch.8.588km and RCC pipe bed.	28 <sup>th</sup> day compressive strength	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.94	Qty represents -73.00 Cum for three sets of cubes.
			249.18	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>247.67</b>	<b>Kg/Cm<sup>2</sup></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>
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 30/05/2021. For Ch.8.488km to Ch.8.588km and RCC pipe bed.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	Qty represents -73.00 Cum for three sets of cubes.
			246.91	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>236.34</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1:2:4</b> , cast on 30/05/2021. For Ch.8.488km to Ch.8.588km and RCC pipe bed.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.75	----- do -----
			237.85	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>232.57</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/05/2021. For RCC pipe encasing.	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents -76.00 Cum for three sets of cubes.
			226.53	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>			
17	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/05/2021. For RCC pipe encasing.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	----- do -----
			215.20	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/05/2021. For RCC pipe encasing.	28 <sup>th</sup> day compressive strength	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.42	----- do -----
			258.24	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>242.38</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD II , WDVIII, WRD-Tivim-Bardez - 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 VIII ,WRD,Karaswada-Bardez- Goa.

4. QC Lab File.      5. Bill File.

Junior Engineer

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