

**GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/QC/F.6-2/Cube -T : 8771 To 8773,8804,8813,8814,8825,8826,8837,8838,8856,8857,8864,8865,8874,8875 / Lab / **456**/ 2019 - 20 Dated:- 27 / 02

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

**Name of Work: - Construction of DWC's and FC's and DO's of B7 distributary of RBMC Of TIP in Dhargal village of Pernem Taluka.**

Ref. to Requisition No.: SDIV/WD VII/ WRD/ F.10/2019-20/232 Dt: 25/01/2020

Qty. Received. : 16 Sets of cube Date of Receipt: - 28/01/2020. Tested on: -11/02/2020 TO 22 /02/2020 as per due dates Ref to CPWD :2009, Vol. I

Sample: PCC 1:3:6 & 1:2:4 Mix O.S No. : 1697 To 1699,1712,1717,1718,1727,1728/AF,3252,3253/SS , 1733,1734,1741,1742,1751,1752/AF. Lab.

Sample No.: 7761 To 7776.

Tested By: -Mr. Anil R. Fadte,J.E. & Mrs. S.S. Shirodkar,J.E.

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SR.NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 3 : 6, cast on 14 / 01 /2020, For pedestals & foundation for DWC 1L/ FC1 & FC2 and DOR 1-OTR/FC1.	28th day compressive strength	129.12	Kg/Cm <sup>2</sup>	100.00 Kg/Cm <sup>2</sup>	23.83	Quantity Represents 30.00 m3 for two sets of cubes cast on 14/01/2020.
			124.59	Kg/Cm <sup>2</sup>			
			117.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>123.83</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Plain Cement concrete cube of mix 1 : 3 : 6, cast on 14 / 01 /2020, For pedestals & foundation for DWC 1L/ FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	126.85	Kg/Cm <sup>2</sup>	100.00 Kg/Cm <sup>2</sup>	23.83	--- do---
			126.85	Kg/Cm <sup>2</sup>			
			117.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>123.83</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Plain Cement concrete cube of mix 1:2:4, cast on 14/01/2020, For pedestals, foundation and plinth for chambers for DWC 1L.	28th day compressive strength	269.57	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	20.09	Quantity Represents 15.00 m3.
			215.20	Kg/Cm <sup>2</sup>			
			271.83	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>252.20</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Plain Cement concrete cube of mix 1:2:4, cast on 17 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L/ FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	206.14	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	4.63	Quantity Represents 15.00 m3.
			215.20	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Plain Cement concrete cube of mix 1:2:4, cast on 20 / 01 /2020, For pedestals , foundation and plinth for chambers for DOR 1,DWC 1L / FC1 & FC2 .	28th day compressive strength	206.14	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	2.12	Quantity Represents 30.00 m3 for two sets of cubes cast on 20/01/2020.
			212.93	Kg/Cm <sup>2</sup>			
			224.26	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>214.44</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Plain Cement concrete cube of mix 1:2:4, cast on 20 / 01 /2020, For pedestals , foundation and plinth for chambers for DOR 1,DWC 1L / FC1 & FC2 .	28th day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	3.20	--- do---
			226.53	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Plain Cement concrete cube of mix 1:2:4, cast on 21 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	5.71	Quantity Represents 30.00 m3 for two sets of cubes cast on 21/01/2020.
			215.20	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></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
8	Plain Cement concrete cube of mix 1:2:4, cast on 21 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	6.07	Quantity Represents 30.00 m3 for two sets of cubes cast on 21/01/2020.
			222.00	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.75</b>			
9	Plain Cement concrete cube of mix 1:2:4, cast on 22 / 01 /2020, For pedestals , foundation and plinth for chambers for DOR 1,DWC 1L / FC1 & FC2 .	28th day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	7.51	Quantity Represents 30.00 m3 for two sets of cubes cast on 22/01/2020.
			210.67	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.77</b>			
10	Plain Cement concrete cube of mix 1:2:4, cast on 22 / 01 /2020, For pedestals , foundation and plinth for chambers for DOR 1,DWC 1L / FC1 & FC2 .	28th day compressive strength	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	7.15	--- do---
			222.00	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.02</b>			
11	Plain Cement concrete cube of mix 1:2:4, cast on 23 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	2.84	Quantity Represents 30.00 m3 for two sets of cubes cast on 23/01/2020.
			212.93	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>215.95</b>			
12	Plain Cement concrete cube of mix 1:2:4, cast on 23 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	1.04	--- do---
			206.14	Kg/Cm <sup>2</sup>			
			210.67	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>212.18</b>			
13	Plain Cement concrete cube of mix 1:2:4, cast on 24 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	3.55	Quantity Represents 30.00 m3 for two sets of cubes cast on 24/01/2020.
			226.53	Kg/Cm <sup>2</sup>			
			210.67	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>217.47</b>			
14	Plain Cement concrete cube of mix 1:2:4, cast on 24 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	1.76	--- do---
			217.47	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>213.69</b>			
15	Plain Cement concrete cube of mix 1:2:4, cast on 25 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	228.79	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	3.20	Quantity Represents 30.00 m3 for two sets of cubes cast on 25/01/2020.
			203.87	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>216.71</b>			
16	Plain Cement concrete cube of mix 1:2:4, cast on 25 / 01 /2020, For pedestals , foundation and plinth for chambers for DWC 1L / FC1 & FC2 and DOR 1-OTR.	28th day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/Cm <sup>2</sup>	4.27	--- do---
			224.26	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>218.98</b>			

1.Copy to: The Assistant Engineer SD IV , WD VII , WRD , Dhargal Pernem Goa.

2. Copy submitted to:The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa. For kind Information.

3. Copy submitted to:The Executive Engineer ,WDVII,WRD,Dhargal Pernem Goa.

4. QC Lab File.      5. Bill File.

Junior Engineer

Assistant Engineer