

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :9037,9044,9045,9060,9061,9082,9083,9101,9102,9115, 9116,9133,9145,9155,9186,9204,9220,9234,9248/ Lab / **498** / 2019 - 20 Dated:- 23 / 03 / 2020

Laboratory : Bicholim - Goa.

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

**Name of work :- Construction of DWCs and FCs and DO s of B 7 Distributory of RBMC of T.I.P. In Dhargal village of Pernem Taluka.**

Ref to Requisition No.:- WRD/SDIV/WDVII/F.10 /2019-20/ **248** Dated :- 25 / 02 / 2020.

Qty. Recived. : 19 Sets of cube Date of Receipt:- 26 / 02 / 2020. Tested on: - 05 / 03 / 2020 To 21 / 03 / 2020 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 2 : 4 & 1 :3 : 6 O.S No. : 3369,3377,3378,3390,3391,3408,3409,3431,9432,3441,3442,3456,3464 /SS,630/SP,3480,3494,3512, 3529,3545/SS. Lab. Sample No.: 8059 To 8077 Tested By: Mrs. S.B.Naik Shirodkar J.E. & Mr. S.M. Patri. A.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1:3:6 , cast on 06 / 02 / 2020. PCC for Foundation for Pedestal for FC's of DOR - 2.	28 <sup>th</sup> day compressive strength	113.26	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	15.53	Qty represents - 15.00 Cum.
			124.59	Kg/Cm <sup>2</sup>			
			108.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>115.53</b>			
2	Plain Cement concrete cube of mix 1:2:4 , cast on 07 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	253.71	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	Qty represents - 30.00 Cum for two sets of cubes cast on 07/02/2020..
			215.20	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>234.83</b>			
3	Plain Cement concrete cube of mix 1:2:4 , cast on 07 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.02	... DO ....
			258.24	Kg/Cm <sup>2</sup>			
			265.04	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>249.93</b>			
4	Plain Cement concrete cube of mix 1:2:4 , cast on 08 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.30	Qty represents - 28.00 Cum for two sets of cubes cast on 08/02/2020..
			265.04	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>248.42</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>
5	Plain Cement concrete cube of mix 1:2:4 , cast on 08 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 28.00 Cum for two sets of cubes cast on 08/02/2020..
			226.53	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>231.81</b>			
6	Plain Cement concrete cube of mix 1:2:4 , cast on 10 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	20.81	Qty represents - 29.00 Cum for two sets of cubes cast on 10/02/2020..
			253.71	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>253.71</b>			
7	Plain Cement concrete cube of mix 1:2:4 , cast on 10 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	... DO ...
			226.53	Kg/Cm <sup>2</sup>			
			222.00	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>231.81</b>			
8	Plain Cement concrete cube of mix 1:2:4 , cast on 11 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.58	Qty represents - 26.00 Cum for two sets of cubes cast on 11/02/2020..
			258.24	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>246.91</b>			
9	Plain Cement concrete cube of mix 1:2:4 , cast on 11 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 .	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.30	... DO ...
			255.97	Kg/Cm <sup>2</sup>			
			240.12	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>248.42</b>			
10	Plain Cement concrete cube of mix 1:3:6 , cast on 12 / 02 / 2020. PCC for Foundation for Pedestal for FC's of DOR 2 & DWC -3 L .	28 <sup>th</sup> day compressive strength	126.85	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	15.53	Qty represents - 15.00 Cum.
			113.26	Kg/Cm <sup>2</sup>			
			106.47	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>115.53</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>
11	Plain Cement concrete cube of mix 1:2:4 , cast on 12 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L .	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.66	Qty represents - 15.00 Cum.
			237.85	Kg/Cm <sup>2</sup>			
			249.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>249.18</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Plain Cement concrete cube of mix 1:2:4 , cast on 13 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L .	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.78	Qty represents - 15.00 Cum.
			237.85	Kg/Cm <sup>2</sup>			
			251.44	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>243.14</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Plain Cement concrete cube of mix 1:2:4 , cast on 14 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L .	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	20.09	Qty represents - 15.00 Cum.
			271.83	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>252.20</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Plain Cement concrete cube of mix 1:2:4 , cast on 15 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L .	28 <sup>th</sup> day compressive strength	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.58	Qty represents - 15.00 Cum.
			253.71	Kg/Cm <sup>2</sup>			
			240.12	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>246.91</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Plain Cement concrete cube of mix 1:2:4 , cast on 18 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L .	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 - 15.00 Cum.
			249.18	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>244.65</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Plain Cement concrete cube of mix 1:3:6 , cast on 19 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L & DOR -3 .	28 <sup>th</sup> day compressive strength	117.79	Kg/Cm <sup>2</sup>	100.00 Kg/cm <sup>2</sup>	17.79	Qty represents - 15.00 Cum.
			126.85	Kg/Cm <sup>2</sup>			
			108.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>117.79</b>	<b>Kg/Cm<sup>2</sup></b>			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
17	Plain Cement concrete cube of mix 1:2:4 , cast on 20 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L & DOR -3 .	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 15.00 Cum.
			219.73	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Plain Cement concrete cube of mix 1:2:4 , cast on 21 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L & DOR -3 .	28 <sup>th</sup> day compressive strength	255.97	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.02	Qty represents - 15.00 Cum.
			258.24	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>249.93</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Plain Cement concrete cube of mix 1:2:4 , cast on 22 / 02 / 2020. PCC for Pedestal, Foundation & Plinth for Chambers for FC's of DOR 2 & DWC -3 L & DOR -3 .	28 <sup>th</sup> day compressive strength	283.16	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.98	Qty represents - 15.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			203.87	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>239.36</b>	<b>Kg/Cm<sup>2</sup></b>			

- Copy to: 1. The Assistant Engineer , SDIV , 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 ,WD VII ,WRD, Dhargal Pernem - Goa.  
 4. QC Lab File.      5. Bill File.

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