GOVERNMENT OF GOA

QUALITY CONTROL LABORATORY

WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 9639,9640,9669,9670,9695,9696,9697, 9729 & 9730   / Lab / **43** / 2020 - 21   Dated:- 054/ 06 / 2020.

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

Name of work : Construction of Pilgao – Narva distributory of LBMC of TIP from Ch. 4.670 km to ch. 8.670 km in Narva and Pilgoa Villages of Bicholim Taluka.

Ref. to Requisition No.: SD II /WD VIII / WRD / F.160 /2020-21/ 5-1   Dated :-   04 / 05 / 2020.

Qty. Recived. : 10 Sets of cube   Date of Receipt:- 05/05/ 2020. Tested on: - 26/05/2020 To 30 /05/2020 as per due dates.   Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 & 1 : 1.5 : 3   O.S No. : 3691,3702,3711,3712,3739 & 3740/SS.   Lab. Sample No.: 8605 To 8614

Tested By: Mrs. S.B. Naik 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 **1 : 2 : 4** , cast on 28/04/2020. for canal lining from ch. 4990 m to 5085 m.	28 th day compressive strength	217.47	Kg/Cm^2	210.00 Kg/cm^2	9.31	Qty represents - 45.00 cum for two sets of cubes.
			237.85	Kg/Cm^2			
			233.32	Kg/Cm^2			
		Average	**229.55**	**Kg/Cm^2**			
2	Cement concrete cube of mix **1 : 2 : 4** , cast on 28/04/2020. for canal lining from ch. 4990 m to 5085 m.	28 th day compressive strength	215.20	Kg/Cm^2	210.00 Kg/cm^2	10.03	----- do -----
			240.12	Kg/Cm^2			
			237.85	Kg/Cm^2			
		Average	**231.06**	**Kg/Cm^2**			
3	Cement concrete cube of mix **1 : 2 : 4** , cast on 29/04/2020. for canal lining from ch. 5090 m to 5185 m.	28 th day compressive strength	235.59	Kg/Cm^2	210.00 Kg/cm^2	8.23	Qty represents - 45.00 cum for two sets of cubes.
			226.53	Kg/Cm^2			
			219.73	Kg/Cm^2			
		Average	**227.28**	**Kg/Cm^2**			
4	Cement concrete cube of mix **1 : 2 : 4** , cast on 29/04/2020. for canal lining from ch. 5090 m to 5185 m.	28 th day compressive strength	226.53	Kg/Cm^2	210.00 Kg/cm^2	11.47	----- do -----
			231.06	Kg/Cm^2			
			244.65	Kg/Cm^2			
		Average	**234.08**	**Kg/Cm^2**			
5	Cement concrete cube of mix **1 : 2 : 4** , cast on 30/04/2020. for canal lining from ch. 5185 m to 5322 m.	28 th day compressive strength	203.87	Kg/Cm^2	210.00 Kg/cm^2	7.51	Qty represents - 65.00 cum for three sets of cubes.
			235.59	Kg/Cm^2			
			237.85	Kg/Cm^2			
		Average	**225.77**	**Kg/Cm^2**			

Junior Engineer   Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or ~~below~~	REMARK
6	Cement concrete cube of mix **1 : 2 : 4** , cast on 30/04/2020. for canal lining from ch. 5185 m to 5322 m.	28th day compressive strength	249.18	Kg/Cm^2	210.00 Kg/cm^2	8.23	Qty represents - 65.00 cum for three sets of cubes.
			215.20	Kg/Cm^2			
			217.47	Kg/Cm^2			
			Average	**227.28** Kg/Cm^2			
7	Cement concrete cube of mix **1 : 2 : 4** , cast on 30/04/2020. for canal lining from ch. 5185 m to 5322 m.	28th day compressive strength	260.51	Kg/Cm^2	210.00 Kg/cm^2	16.50	----- do -----
			219.73	Kg/Cm^2			
			253.71	Kg/Cm^2			
			Average	**244.65** Kg/Cm^2			
8	Cement concrete cube of mix **1 : 2 : 4** , cast on 02/05/2020. for canal lining from ch. 5322 m to 5430 m.	28th day compressive strength	253.71	Kg/Cm^2	210.00 Kg/cm^2	13.26	Qty represents - 47.00 cum for two sets of cubes.
			215.20	Kg/Cm^2			
			244.65	Kg/Cm^2			
			Average	**237.85** Kg/Cm^2			
9	Cement concrete cube of mix **1 : 2 : 4** , cast on 02/05/2020. for canal lining from ch. 5322 m to 5430 m.	28th day compressive strength	244.65	Kg/Cm^2	210.00 Kg/cm^2	17.58	----- do -----
			258.24	Kg/Cm^2			
			237.85	Kg/Cm^2			
			Average	**246.91** Kg/Cm^2			
10	Cement concrete cube of mix **1 : 1.5 : 3** , cast on 02/05/2020. for super passage.	28th day compressive strength	305.81	Kg/Cm^2	265.00 Kg/cm^2	17.39	Qty represents - 4.40 cum.
			317.14	Kg/Cm^2			
			310.34	Kg/Cm^2			
			Average	**311.10** Kg/Cm^2			

Copy to: 1. The Assistant Engineer , SDII , WD VIII, 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   Assistant Engineer