GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 6797,9798,6799,6800,6801,6802,6803/Lab/**49**/2023 - 24 Dated:- 09/05/2023. Laboratory : Bicholim - Goa. Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work: Augmentation of Right Bank Main Canal of T.I.P at ch 12.950 km from Kalna river to secure uninterrupted raw water supply for drinking, agricultural and industrial purpose during the annual canal maintenance period of TIP dam and its appurtenances.

Ref. to Reguisition No: SDIV/WDVII/WRD/F.19/23-24/08. Dt.:- 28/04/2023

Oty. Recived: 14 Sets of cube Date of Receipt: - 28/04/2023. Tested on: - 28/04/2023 as per due dates. Ref to CPWD: 2009, Vol. I

Sample: Cube Mix **1:1.5:3** O.S No : 1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142/RK Lab. Sample No: 6977 to 6990

Tested By: Mrs. R.R. Kadam A.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 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	269.57 262.77 271.83 268.06	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	1.15	Oty represents - 100.00 Cum for fourteen sets of Cube.			
2	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	276.36 265.04 278.63 273.34	Kq/Cm ² Kq/Cm ² Kq/Cm ² Kq/Cm ²	265.00 Kg/cm ²	3.15	do			
3	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	294.48 276.36 267.30 279.38	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	5.43	do			
4	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	269.57 292.22 285.42 282.40	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	6.57	do			
5	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	271.83 262.77 280.89 271.83	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	2.58	do			

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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 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650,	28 th day compressive strength	267.30 289.95 269.57	Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	4.00	Qty represents - 100.00 Cum for fourteen sets of Cube.
	0.650 to 1.300km.	Average	275.61	Kg/Cm ²			
7	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	283.16 276.36 262.77 274.10	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	3.43	do
8	Cement concrete cube of mix 1:1.5:3 , cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	280.89 287.69 267.30 278.63	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	5.14	do
9	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	278.63 262.77 280.89 274.10	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	3.43	do
10	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	265.04 278.63 285.42 276.36	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	4.29	do
11	Cement concrete cube of mix 1:1.5:3 , cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	280.89 271.83 265.04 272.59	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	2.86	do

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
12	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	283.16 267.30 285.42 278.63	Kq/Cm ² Kq/Cm ² Kq/Cm ²	265.00 Kg/cm ²	5.14	Qty represents - 100.00 Cum for fourteen sets of Cube.
13	Cement concrete cube of mix 1:1.5:3, cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	274.10 269.57 283.16 275.61	Kg/Cm ² Kg/Cm ² Kg/Cm ² Kg/Cm ²	265.00 Kg/cm ²	4.00	do
14	Cement concrete cube of mix 1:1.5:3 , cast on 31/03/2023. RCC For Thrust blocks, Anchor block, RCC Drain chamber ch. 0.00 to 0.650, 0.650 to 1.300km.	28 th day compressive strength Average	285.42 262.77 274.10 274.10	Kq/Cm ² Kq/Cm ² Kq/Cm ² Kq/Cm ²	265.00 Kg/cm ²	3.43	do

Copy to: 1. The Assistant Engineer, SDIV, WDVII, 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.

Assistant Engineer