

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2204,2205,2206,2215,2216,2217,2222,/ Lab / **113** / 2021 - 22 Dated:-16 /06/ 2021. Laboratory : Bicholim - Goa.

2223,2224,2229,2230,2231,2242,2243,2244

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

Name of work : Construction of Barrage and up gradation of Raw water pumping station at Ganjem on Mhadei River for Augmentation of Raw water for Opa water works. Part II- Upgradation of pump house including supply and installation of pumps,motors,control panel and substation,providing and laying 1000mm DI pipe gravity main.

Ref. to Requisition No.:F.216/WRD/WDVI/SDI/92/20-21 Dated :- 07/ 06 / 2021.

Qty. Recived. : 15 Sets of cube Date of Receipt:- 08/ 06 / 2021. Tested on: -09 to 13/06/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No. :6435,6436,6437,6446,6447,6448,6453,6454,6455,6460,6461,6462,6473,6474,6475/SS Lab. Sample No.: 1751 to 1765

Tested By: Mrs. 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 12/05/2021. PCC for found wall along the nallah from ch.3764m to 3784m.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	5.35	Qty represents -36.00 Cum.
			210.67	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	221.24			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/05/2021. PCC for found wall along the nallah from ch.3784m to 3804m along nallah.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.55	Qty represents -36.00 Cum.
			203.87	Kg/Cm ²			
			222.00	Kg/Cm ²			
			Average	217.47			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 12/05/2021. PCC for 1 st step of wall along the nallah from ch.3704m to 3724m along nallah.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	7.51	Qty represents - 27.00 Cum.
			224.26	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	225.77			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 13/05/2021. PCC for 1 st step of wall along the nallah from ch.3724m to 3744m along nallah.	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	13.26	Qty represents - 27.00 Cum.
			226.53	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	237.85			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 13/05/2021. PCC for found wall along the nallah from ch.3804m to 3824m along nallah.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents - 36.00 Cum.
			251.44	Kg/Cm ²			
			228.79	Kg/Cm ²			
			Average	231.81			

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 1 : 2 : 4 , cast on 13/05/2021. PCC for 1 st step of wall along the nallah from ch.3744m to 3674m along nallah.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 27.00 Cum.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	230.30			
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 14/05/2021. PCC for 1 st step of wall along the nallah from ch.3764m to 3784m along nallah.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents - 27.00 Cum.
			249.18	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	240.12			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 14/05/2021. PCC for 2 nd step of wall along the nallah from ch.3704m to 3724m along nallah.	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	11.82	Qty represents -18.00 Cum.
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	234.83			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 14/05/2021. PCC for 1 st step of wall along the nallah from ch.3784m to 3804m along nallah.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	12.90	Qty represents -27.00 Cum.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	237.10			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/05/2021. PCC for 2 nd step of wall along the nallah from ch.3724m to 3744m along nallah.	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.79	Qty represents -18.00 Cum.
			240.12	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	224.26			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/05/2021. PCC for 1 st step of wall along the nallah from ch.3804m to 3824m along nallah.	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	8.23	Qty represents - 27.00 Cum.
			231.06	Kg/Cm ²			
			212.93	Kg/Cm ²			
			Average	227.28			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 15/05/2021. PCC for 2 nd step of wall along the nallah from ch.3744m to 3764m along nallah.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents - 18.00 Cum.
			235.59	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	235.59			

Junior Engineer

Assistant Engineer

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
13	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/05/2021. PCC for 2 nd step of wall along the nallah from ch.3764m to 3784m along nallah.	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	10.75	Qty represents -18.00 Cum.
			226.53	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	232.57	Kg/Cm²			
14	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/05/2021. PCC for 2 nd step of wall along the nallah from ch.3784m to 3804m along nallah.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	13.62	Qty represents -18.00 Cum.
			235.59	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
15	Cement concrete cube of mix 1 : 2 : 4 , cast on 16/05/2021. PCC for 3 rd step of wall along the nallah from ch.3704m to 3744m along nallah.	28 th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/cm ²	12.18	Qty represents - 12.00 Cum.
			222.00	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	235.59	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD I , WD VI, WRD, Bicholim - 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 VI ,WRD,Bicholim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer