

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :1989,1990,1998,1999,2069,2070 / Lab / **89** / 2021 - 22 Dated:-31 /05/ 2021. Laboratory : Bicholim - Goa.

,2074,2075,2081,2082,2090,2091

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/44/20-21 Dated :- 10/ 05 / 2021.

Qty. Recived. : 12 Sets of cube Date of Receipt:- 10/ 05 / 2021. Tested on: - 24 to 29/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No. :6217,6218,6228,6229,6296,6297,6303,6304,6311,6312,6323,6324 /SS Lab. Sample No.: 1502 to 1513 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 26/04/2021. PCC for found wall along the nallah from ch.3694m to 3704m.	28 th day compressive strength	233.32	Kg/Cm ²	210.00 Kg/cm ²	10.39	Qty represents -18.00 Cum.
			235.59	Kg/Cm ²			
			226.53	Kg/Cm ²			
			Average	231.81			
2	Cement concrete cube of mix 1 : 2 : 4 , cast on 26/04/2021. PCC for 1 st step of wall along the nallah from ch.3664m to 3684m.	28 th day compressive strength	255.97	Kg/Cm ²	210.00 Kg/cm ²	15.42	Qty represents -27.00 Cum.
			237.85	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	242.38			
3	Cement concrete cube of mix 1 : 2 : 4 , cast on 27/04/2021. PCC for 2 nd step of wall along the nallah from ch.3644m to 3664m along nallah.	28 th day compressive strength	246.91	Kg/Cm ²	210.00 Kg/cm ²	10.03	Qty represents - 18.00 Cum.
			228.79	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	231.06			
4	Cement concrete cube of mix 1 : 2 : 4 , cast on 27/04/2021. PCC for 1 st step of wall along the nallah from ch.3684m to 3694m along nallah.	28 th day compressive strength	242.38	Kg/Cm ²	210.00 Kg/cm ²	17.22	Qty represents - 13.50 Cum.
			260.51	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	246.16			
5	Cement concrete cube of mix 1 : 2 : 4 , cast on 28/04/2021. PCC for 1 st step of wall along the nallah from ch.3694m to 3704m along nallah.	28 th day compressive strength	222.00	Kg/Cm ²	210.00 Kg/cm ²	4.63	Qty represents - 13.50 Cum.
			226.53	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	219.73			

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 28/04/2021. PCC for 2 nd step of wall along the nallah from ch.3664m to 3684m along nallah.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 18.00 Cum.
			219.73	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	218.22			
7	Cement concrete cube of mix 1 : 2 : 4 , cast on 29/04/2021. PCC for 3 rd step of wall along the nallah from ch.3624m to 3664m along nallah.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	14.34	Qty represents -18.00 Cum.
			258.24	Kg/Cm ²			
			235.59	Kg/Cm ²			
			Average	240.12			
8	Cement concrete cube of mix 1 : 2 : 4 , cast on 29/04/2021. PCC for 1 st step of wall along the nallah from ch.3684m to 3704m along nallah.	28 th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/cm ²	16.14	Qty represents -27.00 Cum.
			244.65	Kg/Cm ²			
			233.32	Kg/Cm ²			
			Average	243.89			
9	Cement concrete cube of mix 1 : 2 : 4 , cast on 30/04/2021. PCC for 3 rd step of wall along the nallah from ch.3664m to 3704m along nallah.	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	7.15	Qty represents -18.00 Cum.
			215.20	Kg/Cm ²			
			219.73	Kg/Cm ²			
			Average	225.02			
10	Cement concrete cube of mix 1 : 2 : 4 , cast on 30/04/2021. PCC for found of wall along the nallah from ch.3704m to 3724m.	28 th day compressive strength	217.47	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents -36.00 Cum.
			235.59	Kg/Cm ²			
			231.06	Kg/Cm ²			
			Average	228.04			
11	Cement concrete cube of mix 1 : 2 : 4 , cast on 01/05/2021. PCC for found of wall along the nallah from ch.3724m to 3744m.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	15.42	Qty represents - 36.00 Cum.
			258.24	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	242.38			
12	Cement concrete cube of mix 1 : 2 : 4 , cast on 01/05/2021. PCC for found of wall along the nallah from ch.3744m to 3764m.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 36.00 Cum.
			231.06	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	229.55			

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