

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :1099,1106,1109,1118,1123,1124,1130 / Lab / **283**/ 2020 - 21 Dated:- 05 / 03 / 2021. Laboratory : Bicholim - Goa.
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-Construction of Bank protection wall of upstream of barrage at Ganjem.

Ref. to Requisition No.:MIN/ WDV/WRD/SDII/F.62/2020-21/507 Dated :- 22/ 02 / 2021.

Qty. Recived. :07 Sets of cube Date of Receipt:- 22/ 02 / 2021. Tested on: -22,23,24,25,27/2/2021 & 01/03/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 1.5 : 3 O.S No. : 5165,5174,5178,5187,5192,5193,5203/SS Lab. Sample No.: 512 To 518 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

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| SR. NO. | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissible | % above or below | REMARK |
|---------|---|---|---------------|--------------------------|----------------------------|------------------|---|
| 1 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 25/01/2021. For Wall IX bed D/s of O.T.B Ganjem Left side Foundation ch200 to 215mt. | 28 th day compressive strength | 258.24 | Kg/Cm ² | 265.00 Kg/cm ² | 5.14 | Qty represents - 20.00 Cum. |
| | | | 305.81 | Kg/Cm ² | | | |
| | | | 271.83 | Kg/Cm ² | | | |
| | | Average | 278.63 | Kg/Cm² | | | |
| 2 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 26/01/2021. For Wall IX bed D/s of O.T.B Ganjem Left side Foundation ch215 to 228mt. | 28 th day compressive strength | 283.16 | Kg/Cm ² | 265.00 Kg/cm ² | 6.57 | Qty represents - 20.00 Cum. |
| | | | 269.57 | Kg/Cm ² | | | |
| | | | 294.48 | Kg/Cm ² | | | |
| | | Average | 282.40 | Kg/Cm² | | | |
| 3 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 27/01/2021. For Wall IX 1 st lift D/s of O.T.B Ganjem left side. ch200 to 215mt. | 28 th day compressive strength | 253.71 | Kg/Cm ² | 265.00 Kg/cm ² | 1.72 | Qty represents - 18.00 Cum. |
| | | | 269.57 | Kg/Cm ² | | | |
| | | | 285.42 | Kg/Cm ² | | | |
| | | Average | 269.57 | Kg/Cm² | | | |
| 4 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/01/2021. For Wall IX 1 st lift D/s of O.T.B Ganjem left side. ch215 to 228mt. | 28 th day compressive strength | 308.08 | Kg/Cm ² | 265.00 Kg/cm ² | 16.54 | Qty represents - 19.00 Cum. |
| | | | 317.14 | Kg/Cm ² | | | |
| | | | 301.28 | Kg/Cm ² | | | |
| | | Average | 308.83 | Kg/Cm² | | | |
| 5 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/01/2021. For Wall IX II nd lift D/s of O.T.B Ganjem left side. ch200 to 228mt. | 28 th day compressive strength | 305.81 | Kg/Cm ² | 265.00 Kg/cm ² | 10.56 | Qty represents - 22.00 Cum for two sets of cubes. |
| | | | 292.22 | Kg/Cm ² | | | |
| | | | 280.89 | Kg/Cm ² | | | |
| | | Average | 292.97 | Kg/Cm² | | | |

Junior Engineer

Assistant Engineer

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| SR. NO. | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissible | % above or below | REMARK |
|----------------|--|---|----------------|--------------------------|-----------------------------------|-------------------------|---|
| 6 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 30/01/2021. For Wall IX II nd lift D/s of O.T.B Ganjem left side. ch200 to 228mt. | 28 th day compressive strength | 262.77 | Kg/Cm ² | 265.00 Kg/cm ² | 4.57 | Qty represents - 22.00 Cum for two sets of cubes. |
| | | | 283.16 | Kg/Cm ² | | | |
| | | | 285.42 | Kg/Cm ² | | | |
| | | Average | 277.12 | Kg/Cm² | | | |
| 7 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 01/02/2021. For Wall IX III rd lift D/s of O.T.B Ganjem left side. ch200 to 228mt. | 28 th day compressive strength | 292.22 | Kg/Cm ² | 265.00 Kg/cm ² | 5.43 | Qty represents - 9.00 Cum. |
| | | | 280.89 | Kg/Cm ² | | | |
| | | | 265.04 | Kg/Cm ² | | | |
| | | Average | 279.38 | Kg/Cm² | | | |

Copy to: 1. The Assistant Engineer , SD II , WD VI, WRD,Valpoi-Sattari - 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