

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 9257,9258,9267,9268,9281,9282,9290,9291,9322,9334, & 9335 / Lab / **507** / 2019 - 20 Dated:- 30/ 03 / 2020.

Laboratory : Bicholim - Goa.

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

Name of work : Supplying Raw Water to Mopa Airport by pumping water from Ch. 17.300 km of R.B.M.C. of T.I.P.at Nagzer village in Pernem Taluka.

Ref. to Requisition No.: SD II/ WD VII /WRD / F.23 /2019-20/ 181 Dated :- 21/ 03 / 2020.

Qty. Recived. : 11 Sets of cube Date of Receipt:- 21/ 03 / 2020. Tested on: - 21/03/2020 To 27/03/2020, as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 & 1 : 1.5 : 3 O.S No. : 3548,3549/SS, 648,658,664,684,691,692/SP. Lab. Sample No.: 8464 To 8474 Tested By: Mrs. S.B. Naik Shirodkar. J.E. & Mr. S. M. Patri. A.E.

REPORT PAGE 01 OF 02

| SR. NO. | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissible | % above or below | REMARK |
|---------|---|---|---------------|--------------------------|----------------------------|------------------|--|
| 1 | Cement concrete cube of mix 1 : 2 : 4 , cast on 22/02/2020. P.C.C. for Pump , Anchor and Thrust block. | 28 th day compressive strength | 210.67 | Kg/Cm ² | 210.00 Kg/cm ² | 1.76 | Qty represents - 30.00 Cum for two sets of cubes cast on 22/02/2020. |
| | | | 215.20 | Kg/Cm ² | | | |
| | | | 215.20 | Kg/Cm ² | | | |
| | | Average | 213.69 | Kg/Cm² | | | |
| 2 | Cement concrete cube of mix 1 : 2 : 4 , cast on 22/02/2020. P.C.C. for Pump , Anchor and Thrust block. | 28 th day compressive strength | 224.26 | Kg/Cm ² | 210.00 Kg/cm ² | 6.79 | Do |
| | | | 215.20 | Kg/Cm ² | | | |
| | | | 233.32 | Kg/Cm ² | | | |
| | | Average | 224.26 | Kg/Cm² | | | |
| 3 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 24/02/2020. R.C.C. for Pump Foundation. | 28 th day compressive strength | 308.08 | Kg/Cm ² | 265.00 Kg/cm ² | 9.42 | Qty represents - 16.00 Cum for two sets of cubes cast on 24/02/2020. |
| | | | 267.30 | Kg/Cm ² | | | |
| | | | 294.48 | Kg/Cm ² | | | |
| | | Average | 289.95 | Kg/Cm² | | | |
| 4 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 24/02/2020. R.C.C. for Pump Foundation. | 28 th day compressive strength | 267.30 | Kg/Cm ² | 265.00 Kg/cm ² | 7.99 | Do |
| | | | 296.75 | Kg/Cm ² | | | |
| | | | 294.48 | Kg/Cm ² | | | |
| | | Average | 286.18 | Kg/Cm² | | | |
| 5 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 25/02/2020. R.C.C. for Anchor Block from Ch. 80 To 500 m . | 28 th day compressive strength | 285.42 | Kg/Cm ² | 265.00 Kg/cm ² | 9.42 | Qty represents - 20.00 Cum for two sets of cubes cast on 25/02/2020. |
| | | | 294.48 | Kg/Cm ² | | | |
| | | | 289.95 | Kg/Cm ² | | | |
| | | Average | 289.95 | Kg/Cm² | | | |
| 6 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 25/02/2020. R.C.C. for Anchor Block from Ch. 80 To 500 m . | 28 th day compressive strength | 283.16 | Kg/Cm ² | 265.00 Kg/cm ² | 5.14 | Do |
| | | | 271.83 | Kg/Cm ² | | | |
| | | | 280.89 | Kg/Cm ² | | | |
| | | Average | 278.63 | Kg/Cm² | | | |

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 02

| SR. NO. | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissable | % above or below | REMARK |
|---------|--|---|---------------|--------------------------|----------------------------|------------------|--|
| 7 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 26/02/2020. R.C.C. for Anchor Block from Ch. 500 To 900 m . | 28 th day compressive strength | 283.16 | Kg/Cm ² | 265.00 Kg/cm ² | 12.55 | Qty represents - 20.00 Cum for two sets of cubes cast on 26/02/2020. |
| | | | 271.83 | Kg/Cm ² | | | |
| | | | 339.79 | Kg/Cm ² | | | |
| | | Average | 298.26 | Kg/Cm² | | | |
| 8 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 26/02/2020. R.C.C. for Anchor Block from Ch. 500 To 900 m . | 28 th day compressive strength | 269.57 | Kg/Cm ² | 265.00 Kg/cm ² | 10.84 | Do |
| | | | 299.01 | Kg/Cm ² | | | |
| | | | 312.61 | Kg/Cm ² | | | |
| | | Average | 293.73 | Kg/Cm² | | | |
| 9 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 27/02/2020. R.C.C. for Anchor Block from Ch. 900 To 1200 m. | 28 th day compressive strength | 276.36 | Kg/Cm ² | 265.00 Kg/cm ² | 11.70 | Qty represents - 20.00 Cum . |
| | | | 285.42 | Kg/Cm ² | | | |
| | | | 326.20 | Kg/Cm ² | | | |
| | | Average | 295.99 | Kg/Cm² | | | |
| 10 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/02/2020. R.C.C. for Anchor Block from Ch. 1200 To 1450 m. | 28 th day compressive strength | 299.01 | Kg/Cm ² | 265.00 Kg/cm ² | 7.71 | Qty represents - 20.00 Cum . |
| | | | 289.95 | Kg/Cm ² | | | |
| | | | 267.30 | Kg/Cm ² | | | |
| | | Average | 285.42 | Kg/Cm² | | | |
| 11 | Cement concrete cube of mix 1 : 1.5 : 3 , cast on 28/02/2020. R.C.C. for Thrust Block from Ch. 1500,1565,1575,1586 m. | 28 th day compressive strength | 271.83 | Kg/Cm ² | 265.00 Kg/cm ² | 10.84 | Qty represents - 25.00 Cum . |
| | | | 287.69 | Kg/Cm ² | | | |
| | | | 321.67 | Kg/Cm ² | | | |
| | | Average | 293.73 | Kg/Cm² | | | |

Copy to: 1. The Assistant Engineer , SD II , WD VII, 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 , WD VII ,WRD, Dharagal - Pernem - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer