

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2449,2450,2467,2468,2472,2473,2478/ Lab /145/ 2021 - 22 Dated:-08/07/2021. Laboratory : Bicholim - Goa.  
,2479,2490,2491,2499,2500,2502,2503 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work :Construction of Pilgao-Narve Distributory of LBMC of TIP from ch.4.825km to ch.8670m at village Pilgao and Narve in Bicholim Taluka.(Modified Balance Work).**

Ref. to Requisition No.: SDII/WDVIII/WRD/F.160/2020-21/20 Dated :- 26/ 06/ 2021.

Qty. Recived. : 14 Sets of cube Date of Receipt:- 29/ 06 / 2021. Tested on:-29,30/06/2021 & 01,02,03,04,05/07/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:1.5: 3 O.S No. :6690,6691,6708,6709,6713,6714,6719,6720,6732,6733,6745,6746,6748,6749/SS Lab. Sample No.: 1995 To 2008

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 <b>1:1.5: 3</b> , cast on 01/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strenath | 258.24         | Kg/Cm <sup>2</sup> | 265.00 Kg/cm <sup>2</sup>  | 1.44             | Qty represents -29.00 Cum for Two sets of cubes. |
|        |   |   | 276.36         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | 271.83         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | <b>Average</b> | <b>268.81</b>      |                            |                  |  |
| 2      | Cement concrete cube of mix <b>1:1.5: 3</b> , cast on 01/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strenath | 287.69         | Kg/Cm <sup>2</sup> | 265.00 Kg/cm <sup>2</sup>  | 9.99             | ----- do -----                                   |
|        |   |   | 289.95         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | 296.75         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | <b>Average</b> | <b>291.46</b>      |                            |                  |  |
| 3      | Cement concrete cube of mix <b>1:1.5: 3</b> , cast on 02/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strenath | 289.95         | Kg/Cm <sup>2</sup> | 265.00 Kg/cm <sup>2</sup>  | 9.42             | Qty represents -28.00 Cum for Two sets of cubes. |
|        |   |   | 296.75         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | 283.16         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | <b>Average</b> | <b>289.95</b>      |                            |                  |  |
| 4      | Cement concrete cube of mix <b>1:1.5: 3</b> , cast on 02/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strenath | 271.83         | Kg/Cm <sup>2</sup> | 265.00 Kg/cm <sup>2</sup>  | 6.28             | ----- do -----                                   |
|        |   |   | 280.89         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | 292.22         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | <b>Average</b> | <b>281.65</b>      |                            |                  |  |
| 5      | Cement concrete cube of mix <b>1:1.5: 3</b> , cast on 03/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strenath | 287.69         | Kg/Cm <sup>2</sup> | 265.00 Kg/cm <sup>2</sup>  | 6.28             | Qty represents -28.00 Cum for Two sets of cubes. |
|        |   |   | 274.10         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | 283.16         | Kg/Cm <sup>2</sup> |                            |                  |  |
|        |   |   | <b>Average</b> | <b>281.65</b>      |                            |                  |  |

Junior Engineer

Assistant Engineer

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| <b>SR. NO</b> | <b>DISCRIPTION OF SAMPLE</b>   | <b>TESTED FOR</b>                         | <b>RESULTS</b> |                          | <b>Max./Min.Value permissable</b> | <b>% above or below</b> | <b>REMARK</b>                                    |
|---------------|--|---|----------------|--------------------------|-----------------------------------|-------------------------|--|
| 6             | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 03/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 278.63         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 2.58                    | Qty represents -28.00 Cum for Two sets of cubes. |
|               |  |   | 265.04         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 271.83         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>271.83</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 7             | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 04/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 253.71         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 3.15                    | Qty represents -28.00 Cum for Two sets of cubes. |
|               |  |   | 269.57         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 296.75         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>273.34</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 8             | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 04/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 276.36         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 5.43                    | ----- do -----                                   |
|               |  |   | 289.95         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 271.83         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>279.38</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 9             | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 05/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 280.89         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 2.86                    | Qty represents -28.00 Cum for Two sets of cubes. |
|               |  |   | 265.04         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 271.83         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>272.59</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 10            | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 05/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 258.24         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 3.43                    | ----- do -----                                   |
|               |  |   | 283.16         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 280.89         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>274.10</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 11            | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 06/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 267.30         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 3.43                    | Qty represents -28.00 Cum for Two sets of cubes. |
|               |  |   | 276.36         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 278.63         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>274.10</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 12            | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 06/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 278.63         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 5.71                    | ----- do -----                                   |
|               |  |   | 294.48         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 267.30         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>280.14</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |

Junior Engineer

Assistant Engineer

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| <b>SR. NO</b> | <b>DISCRIPTION OF SAMPLE</b>   | <b>TESTED FOR</b>                         | <b>RESULTS</b> |                          | <b>Max./Min.Value permissable</b> | <b>% above or below</b> | <b>REMARK</b>                                    |
|---------------|--|---|----------------|--------------------------|-----------------------------------|-------------------------|--|
| 13            | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 07/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 262.77         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 2.29                    | Qty represents -28.00 Cum for Two sets of cubes. |
|               |  |   | 280.89         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 269.57         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>271.08</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |
| 14            | Cement concrete cube of mix <b>1:1.5:3</b> , cast on 07/06/2021. For Chambers casting. | 28 <sup>th</sup> day compressive strength | 283.16         | Kg/Cm <sup>2</sup>       | 265.00 Kg/cm <sup>2</sup>         | 6.57                    | ----- do -----                                   |
|               |  |   | 287.69         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  |   | 276.36         | Kg/Cm <sup>2</sup>       |                                   |                         |  |
|               |  | <b>Average</b>                            | <b>282.40</b>  | <b>Kg/Cm<sup>2</sup></b> |                                   |                         |  |

Copy to: 1. The Assistant Engineer , SD II , WDVIII, WRD-Tivim-Bardez - 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 VIII ,WRD,Karaswada-Bardez- Goa.

4. QC Lab File.      5. Bill File.

Junior Engineer

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