

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :1719,1720,1727,1728,1731,1732,1738,1739/ Lab /53/ 2021 - 22 Dated:-03/05/ 2021. Laboratory : Bicholim - Goa.
,1744,1745,1757,1758,1773,1774,1784,1785,1801,1802,1809,1810,1815,1816,1836,1837,1847,1848 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Development of Poi in Survey No. 169 near Fishing Jetty and Beautification of bund of River Chapora in V.P.Siolim in Siolim Constituency

Ref. to Requisition No.: SDI/WDI/WRD/F.57/21-22/09 Dated :- 09/ 04/ 2021.

Qty. Received. : 26 Sets of cube Date of Receipt:- 12/ 04 / 2021. Tested on: -16,17,19,20 to 23,24,27 to 30/04/2021 & 01/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No. :5891,5892,5904,5905,5913,5914,5922,5923, 5933,5934,5954,5955,5967,5968,5997,5998,6011,6012,6018,6019,6043,6044,6057,6058/SS & 38,39/RK Lab. Sample No.: 1177 To 1202 Tested By: Mrs.R.R.Kadam. A.E & Mrs.Shirodkar. J.E.

Cube test witnessed by Shri.Maruti Naik,representative by agency.M/s.Premier Civil Construction Pvt.ltd. On 28/04/2021.

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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 19/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 215.20 | Kg/Cm ² | 210.00 Kg/cm ² | 2.48 | Qty represents -30.00 Cum for two sets of cubes & exact location of work done is not specified. |
| | | | 222.00 | Kg/Cm ² | | | |
| | | | 208.40 | Kg/Cm ² | | | |
| | | | Average | 215.20 | | | |
| 2 | Cement concrete cube of mix 1 :2 : 4 , cast on 19/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 226.53 | Kg/Cm ² | 210.00 Kg/cm ² | 5.35 | ----- do ----- |
| | | | 206.14 | Kg/Cm ² | | | |
| | | | 231.06 | Kg/Cm ² | | | |
| | | | Average | 221.24 | | | |
| 3 | Cement concrete cube of mix 1 :2 : 4 , cast on 20/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 237.85 | Kg/Cm ² | 210.00 Kg/cm ² | 13.98 | Qty represents -32.00 Cum for two sets of cubes. |
| | | | 244.65 | Kg/Cm ² | | | |
| | | | 235.59 | Kg/Cm ² | | | |
| | | | Average | 239.36 | | | |
| 4 | Cement concrete cube of mix 1 :2 : 4 , cast on 20/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 235.59 | Kg/Cm ² | 210.00 Kg/cm ² | 19.02 | ----- do ----- |
| | | | 255.97 | Kg/Cm ² | | | |
| | | | 258.24 | Kg/Cm ² | | | |
| | | | Average | 249.93 | | | |
| 5 | Cement concrete cube of mix 1 :2 : 4 , cast on 22/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 201.61 | Kg/Cm ² | 210.00 Kg/cm ² | 6.79 | Qty represents -33.00 Cum for two sets of cubes. |
| | | | 240.12 | Kg/Cm ² | | | |
| | | | 231.06 | Kg/Cm ² | | | |
| | | | Average | 224.26 | | | |
| 6 | Cement concrete cube of mix 1 :2 : 4 , cast on 22/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 246.91 | Kg/Cm ² | 210.00 Kg/cm ² | 12.18 | ----- do ----- |
| | | | 233.32 | Kg/Cm ² | | | |
| | | | 226.53 | 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 |
|--------|---|---|---------------|--------------------------|-------------------------------|---------------------|---|
| 7 | Cement concrete cube of mix 1:2:4 , cast on 23/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 215.20 | Kg/Cm ² | 210.00 Kg/cm ² | 12.90 | Qty represents - 30.00 Cum for two sets of cubes. |
| | | | 249.18 | Kg/Cm ² | | | |
| | | | 246.91 | Kg/Cm ² | | | |
| | | Average | 237.10 | Kg/Cm² | | | |
| 8 | Cement concrete cube of mix 1:2:4 , cast on 23/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 226.53 | Kg/Cm ² | 210.00 Kg/cm ² | 14.34 | ----- do ----- |
| | | | 258.24 | Kg/Cm ² | | | |
| | | | 235.59 | Kg/Cm ² | | | |
| | | Average | 240.12 | Kg/Cm² | | | |
| 9 | Cement concrete cube of mix 1:2:4 , cast on 24/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 251.44 | Kg/Cm ² | 210.00 Kg/cm ² | 8.59 | Qty represents - 33.00 Cum for two sets of cubes. |
| | | | 212.93 | Kg/Cm ² | | | |
| | | | 219.73 | Kg/Cm ² | | | |
| | | Average | 228.04 | Kg/Cm² | | | |
| 10 | Cement concrete cube of mix 1:2:4 , cast on 24/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 217.47 | Kg/Cm ² | 210.00 Kg/cm ² | 4.63 | ----- do ----- |
| | | | 203.87 | Kg/Cm ² | | | |
| | | | 237.85 | Kg/Cm ² | | | |
| | | Average | 219.73 | Kg/Cm² | | | |
| 11 | Cement concrete cube of mix 1:2:4 , cast on 25/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 237.85 | Kg/Cm ² | 210.00 Kg/cm ² | 11.11 | Qty represents - 31.00 Cum for two sets of cubes. |
| | | | 235.59 | Kg/Cm ² | | | |
| | | | 226.53 | Kg/Cm ² | | | |
| | | Average | 233.32 | Kg/Cm² | | | |
| 12 | Cement concrete cube of mix 1:2:4 , cast on 25/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 240.12 | Kg/Cm ² | 210.00 Kg/cm ² | 14.34 | ----- do ----- |
| | | | 246.91 | Kg/Cm ² | | | |
| | | | 233.32 | Kg/Cm ² | | | |
| | | Average | 240.12 | Kg/Cm² | | | |
| 13 | Cement concrete cube of mix 1:2:4 , cast on 26/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 271.83 | Kg/Cm ² | 210.00 Kg/cm ² | 28.01 | Qty represents - 32.00 Cum for two sets of cubes. |
| | | | 271.83 | Kg/Cm ² | | | |
| | | | 262.77 | Kg/Cm ² | | | |
| | | Average | 268.81 | Kg/Cm² | | | |
| 14 | Cement concrete cube of mix 1:2:4 , cast on 26/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 274.10 | Kg/Cm ² | 210.00 Kg/cm ² | 24.77 | ----- do ----- |
| | | | 262.77 | Kg/Cm ² | | | |
| | | | 249.18 | Kg/Cm ² | | | |
| | | Average | 262.02 | Kg/Cm² | | | |

Junior Engineer

Assistant Engineer

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| SR. NO | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissable | % above or below | REMARK |
|--------|---|---|---------------|--------------------------|-------------------------------|---------------------|---|
| 15 | Cement concrete cube of mix 1:2:4 , cast on 27/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 262.77 | Kg/Cm ² | 210.00 Kg/cm ² | 20.81 | Qty represents - 33.00 Cum for two sets of cubes. |
| | | | 260.51 | Kg/Cm ² | | | |
| | | | 237.85 | Kg/Cm ² | | | |
| | | Average | 253.71 | Kg/Cm² | | | |
| 16 | Cement concrete cube of mix 1:2:4 , cast on 27/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 237.85 | Kg/Cm ² | 210.00 Kg/cm ² | 10.39 | ----- do ----- |
| | | | 208.40 | Kg/Cm ² | | | |
| | | | 249.18 | Kg/Cm ² | | | |
| | | Average | 231.81 | Kg/Cm² | | | |
| 17 | Cement concrete cube of mix 1:2:4 , cast on 30/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 199.34 | Kg/Cm ² | 210.00 Kg/cm ² | 2.48 | Qty represents - 28.00 Cum for two sets of cubes. |
| | | | 219.73 | Kg/Cm ² | | | |
| | | | 226.53 | Kg/Cm ² | | | |
| | | Average | 215.20 | Kg/Cm² | | | |
| 18 | Cement concrete cube of mix 1:2:4 , cast on 30/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 217.47 | Kg/Cm ² | 210.00 Kg/cm ² | 3.55 | ----- do ----- |
| | | | 233.32 | Kg/Cm ² | | | |
| | | | 201.61 | Kg/Cm ² | | | |
| | | Average | 217.47 | Kg/Cm² | | | |
| 19 | Cement concrete cube of mix 1:2:4 , cast on 31/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 208.40 | Kg/Cm ² | 210.00 Kg/cm ² | 4.27 | Qty represents -30.00 Cum for two sets of cubes. |
| | | | 231.06 | Kg/Cm ² | | | |
| | | | 217.47 | Kg/Cm ² | | | |
| | | Average | 218.98 | Kg/Cm² | | | |
| 20 | Cement concrete cube of mix 1:2:4 , cast on 31/03/2021. For Foundation & Plinth. | 28 th day compressive strength | 249.18 | Kg/Cm ² | 210.00 Kg/cm ² | 9.67 | ----- do ----- |
| | | | 226.53 | Kg/Cm ² | | | |
| | | | 215.20 | Kg/Cm ² | | | |
| | | Average | 230.30 | Kg/Cm² | | | |
| 21 | Cement concrete cube of mix 1:2:4 , cast on 01/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 222.00 | Kg/Cm ² | 210.00 Kg/cm ² | 7.87 | Qty represents -28.00 Cum for two sets of cubes. |
| | | | 226.53 | Kg/Cm ² | | | |
| | | | 231.06 | Kg/Cm ² | | | |
| | | Average | 226.53 | Kg/Cm² | | | |
| 22 | Cement concrete cube of mix 1:2:4 , cast on 01/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 226.53 | Kg/Cm ² | 210.00 Kg/cm ² | 14.34 | ----- do ----- |
| | | | 262.77 | Kg/Cm ² | | | |
| | | | 231.06 | Kg/Cm ² | | | |
| | | Average | 240.12 | Kg/Cm² | | | |

Junior Engineer

Assistant Engineer

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| SR. NO | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissable | % above or below | REMARK |
|---------------|---|---|----------------|--------------------------|---------------------------------------|-----------------------------|---|
| 23 | Cement concrete cube of mix 1:2:4 , cast on 02/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 226.53 | Kg/Cm ² | 210.00 Kg/cm ² | 11.11 | Qty represents - 30.00 Cum for two sets of cubes. |
| | | | 249.18 | Kg/Cm ² | | | |
| | | | 224.26 | Kg/Cm ² | | | |
| | | Average | 233.32 | Kg/Cm² | | | |
| 24 | Cement concrete cube of mix 1:2:4 , cast on 02/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 226.53 | Kg/Cm ² | 210.00 Kg/cm ² | 12.54 | ----- do ----- |
| | | | 246.91 | Kg/Cm ² | | | |
| | | | 235.59 | Kg/Cm ² | | | |
| | | Average | 236.34 | Kg/Cm² | | | |
| 25 | Cement concrete cube of mix 1:2:4 , cast on 03/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 237.85 | Kg/Cm ² | 210.00 Kg/cm ² | 17.58 | Qty represents - 25.00 Cum for two sets of cubes. |
| | | | 240.12 | Kg/Cm ² | | | |
| | | | 262.77 | Kg/Cm ² | | | |
| | | Average | 246.91 | Kg/Cm² | | | |
| 26 | Cement concrete cube of mix 1:2:4 , cast on 03/04/2021. For Foundation & Plinth. | 28 th day compressive strength | 215.20 | Kg/Cm ² | 210.00 Kg/cm ² | 7.15 | ----- do ----- |
| | | | 242.38 | Kg/Cm ² | | | |
| | | | 217.47 | Kg/Cm ² | | | |
| | | Average | 225.02 | Kg/Cm² | | | |

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

4. QC Lab File. 5. Bill File.

Junior Engineer

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