

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3776 to 3779,3839 to 3842,3871 to 3874,/ Lab /44 / 2022 - 23 Dated:- 23/04/2022. Laboratory : Bicholim - Goa.
3932 to 3935,3966 to 3969,4011,4012 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : "Flood Mitigation measures and construction of flood water pumping station at Mala, Panaji - Goa".

Ref. to Requisition No.: SDIV/WDI/WRD/F.38/21-22/806 Dt.:- 26/ 03/ 2022

Qty. Received. : 22 Sets of cube Date of Receipt:- 01/ 04 / 2022. Tested on: 02,06,09,13,17 & 20/04/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **M -35** O.S No. : 463 to 466/R.K, 8041 to 8044, 8094 to 8097, 8167 to 8170, 8210 to 8213, 8262,8263/SS Lab. Sample No.: 3710 to 3731 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 M-35 , cast on 05/03/2022. For Pile No 11. | 28 th day compressive strength | 425.87 | Kg/Cm ² | 400.00 Kg/cm ² | 4.58 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 421.34 | Kg/Cm ² | | | |
| | | | 407.75 | Kg/Cm ² | | | |
| | | Average | 418.32 | Kg/Cm² | | | |
| 2 | Cement concrete cube of mix M-35 , cast on 05/03/2022. For Pile No 11. | 28 th day compressive strength | 398.69 | Kg/Cm ² | 400.00 Kg/cm ² | 2.50 | ----- do ----- |
| | | | 412.28 | Kg/Cm ² | | | |
| | | | 419.07 | Kg/Cm ² | | | |
| | | Average | 410.01 | Kg/Cm² | | | |
| 3 | Cement concrete cube of mix M-35 , cast on 05/03/2022. For Pile No 14. | 28 th day compressive strength | 405.48 | Kg/Cm ² | 400.00 Kg/cm ² | 3.26 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 407.75 | Kg/Cm ² | | | |
| | | | 425.87 | Kg/Cm ² | | | |
| | | Average | 413.03 | Kg/Cm² | | | |
| 4 | Cement concrete cube of mix M-35 , cast on 05/03/2022. For Pile No 14. | 28 th day compressive strength | 414.54 | Kg/Cm ² | 400.00 Kg/cm ² | 1.94 | ----- do ----- |
| | | | 396.42 | Kg/Cm ² | | | |
| | | | 412.28 | Kg/Cm ² | | | |
| | | Average | 407.75 | Kg/Cm² | | | |
| 5 | Cement concrete cube of mix M-35 , cast on 09/03/2022. For Pile No 03. | 28 th day compressive strength | 416.81 | Kg/Cm ² | 400.00 Kg/cm ² | 3.45 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 407.75 | Kg/Cm ² | | | |
| | | | 416.81 | Kg/Cm ² | | | |
| | | Average | 413.79 | Kg/Cm² | | | |
| 6 | Cement concrete cube of mix M-35 , cast on 09/03/2022. For Pile No 03. | 28 th day compressive strength | 412.28 | Kg/Cm ² | 400.00 Kg/cm ² | 3.64 | ----- do ----- |
| | | | 428.13 | Kg/Cm ² | | | |
| | | | 403.22 | Kg/Cm ² | | | |
| | | Average | 414.54 | 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 |
|--------|---|--------------------------------|---------------|--------------------------|----------------------------|------------------|---|
| 7 | Cement concrete cube of mix M-35 , cast on 09/03/2022. For Pile No 07. | 28 th day compressive strength | 396.42 | Kg/Cm ² | 400.00 Kg/cm ² | 4.58 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 428.13 | Kg/Cm ² | | | |
| | | | 430.40 | Kg/Cm ² | | | |
| | | Average | 418.32 | Kg/Cm² | | | |
| 8 | Cement concrete cube of mix M-35 , cast on 09/03/2022. For Pile No 07. | 28 th day compressive strength | 403.22 | Kg/Cm ² | 400.00 Kg/cm ² | 4.20 | ----- do ----- |
| | | | 428.13 | Kg/Cm ² | | | |
| | | | 419.07 | Kg/Cm ² | | | |
| | | Average | 416.81 | Kg/Cm² | | | |
| 9 | Cement concrete cube of mix M-35 , cast on 12/03/2022. For Pile No 06. | 28 th day compressive strength | 410.01 | Kg/Cm ² | 400.00 Kg/cm ² | 2.13 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 430.40 | Kg/Cm ² | | | |
| | | | 385.09 | Kg/Cm ² | | | |
| | | Average | 408.50 | Kg/Cm² | | | |
| 10 | Cement concrete cube of mix M-35 , cast on 12/03/2022. For Pile No 06. | 28 th day compressive strength | 428.13 | Kg/Cm ² | 400.00 Kg/cm ² | 6.66 | ----- do ----- |
| | | | 434.93 | Kg/Cm ² | | | |
| | | | 416.81 | Kg/Cm ² | | | |
| | | Average | 426.62 | Kg/Cm² | | | |
| 11 | Cement concrete cube of mix M-35 , cast on 12/03/2022. For Pile No 02. | 28 th day compressive strength | 403.22 | Kg/Cm ² | 400.00 Kg/cm ² | 2.88 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 419.07 | Kg/Cm ² | | | |
| | | | 412.28 | Kg/Cm ² | | | |
| | | Average | 411.52 | Kg/Cm² | | | |
| 12 | Cement concrete cube of mix M-35 , cast on 12/03/2022. For Pile No 02. | 28 th day compressive strength | 407.75 | Kg/Cm ² | 400.00 Kg/cm ² | 5.15 | ----- do ----- |
| | | | 432.67 | Kg/Cm ² | | | |
| | | | 421.34 | Kg/Cm ² | | | |
| | | Average | 420.58 | Kg/Cm² | | | |
| 13 | Cement concrete cube of mix M-35 , cast on 16/03/2022. For Pile No 01. | 28 th day compressive strength | 389.63 | Kg/Cm ² | 400.00 Kg/cm ² | 1.75 | Qty represents - 9.00 M3 for two sets of cubes. |
| | | | 412.28 | Kg/Cm ² | | | |
| | | | 419.07 | Kg/Cm ² | | | |
| | | Average | 406.99 | Kg/Cm² | | | |
| 14 | Cement concrete cube of mix M-35 , cast on 16/03/2022. For Pile No 01. | 28 th day compressive strength | 396.42 | Kg/Cm ² | 400.00 Kg/cm ² | 2.69 | ----- do ----- |
| | | | 416.81 | Kg/Cm ² | | | |
| | | | 419.07 | Kg/Cm ² | | | |
| | | Average | 410.77 | Kg/Cm² | | | |
| 15 | Cement concrete cube of mix M-35 , cast on 16/03/2022. For Pile No 05. | 28 th day compressive strength | 407.75 | Kg/Cm ² | 400.00 Kg/cm ² | 2.13 | Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes. |
| | | | 400.95 | Kg/Cm ² | | | |
| | | | 416.81 | Kg/Cm ² | | | |
| | | Average | 408.50 | Kg/Cm² | | | |

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| SR. NO | DISCRIPTION OF SAMPLE | TESTED FOR | RESULTS | | Max./Min.Value permissable | % above or below | REMARK |
|--------|---|--------------------------------|---------------|--------------------------|----------------------------|------------------|---|
| 16 | Cement concrete cube of mix M-35 , cast on 16/03/2022. For Pile No 05. | 28 th day compressive strength | 407.75 | Kg/Cm ² | 400.00 Kg/cm ² | 1.94 | Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes. |
| | | | 389.63 | Kg/Cm ² | | | |
| | | | 425.87 | Kg/Cm ² | | | |
| | | Average | 407.75 | Kg/Cm² | | | |
| 17 | Cement concrete cube of mix M-35 , cast on 20/03/2022. For Pile No 04. | 28 th day compressive strength | 407.75 | Kg/Cm ² | 400.00 Kg/cm ² | 4.77 | Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes. |
| | | | 416.81 | Kg/Cm ² | | | |
| | | | 432.67 | Kg/Cm ² | | | |
| | | Average | 419.07 | Kg/Cm² | | | |
| 18 | Cement concrete cube of mix M-35 , cast on 20/03/2022. For Pile No 04. | 28 th day compressive strength | 398.69 | Kg/Cm ² | 400.00 Kg/cm ² | 4.01 | ----- do ----- |
| | | | 437.20 | Kg/Cm ² | | | |
| | | | 412.28 | Kg/Cm ² | | | |
| | | Average | 416.05 | Kg/Cm² | | | |
| 19 | Cement concrete cube of mix M-35 , cast on 20/03/2022. For Pile No 22. | 28 th day compressive strength | 434.93 | Kg/Cm ² | 400.00 Kg/cm ² | 7.79 | Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes. |
| | | | 441.73 | Kg/Cm ² | | | |
| | | | 416.81 | Kg/Cm ² | | | |
| | | Average | 431.15 | Kg/Cm² | | | |
| 20 | Cement concrete cube of mix M-35 , cast on 20/03/2022. For Pile No 22. | 28 th day compressive strength | 410.01 | Kg/Cm ² | 400.00 Kg/cm ² | 5.90 | ----- do ----- |
| | | | 443.99 | Kg/Cm ² | | | |
| | | | 416.81 | Kg/Cm ² | | | |
| | | Average | 423.60 | Kg/Cm² | | | |
| 21 | Cement concrete cube of mix M-35 , cast on 23/03/2022. For Pile No 23. | 28 th day compressive strength | 432.67 | Kg/Cm ² | 400.00 Kg/cm ² | 4.58 | Qty represents - 9.00 M3 for two sets of cubes for two sets of cubes. |
| | | | 414.54 | Kg/Cm ² | | | |
| | | | 407.75 | Kg/Cm ² | | | |
| | | Average | 418.32 | Kg/Cm² | | | |
| 22 | Cement concrete cube of mix M-35 , cast on 23/03/2022. For Pile No 23. | 28 th day compressive strength | 439.46 | Kg/Cm ² | 400.00 Kg/cm ² | 6.09 | ----- do ----- |
| | | | 421.34 | Kg/Cm ² | | | |
| | | | 412.28 | Kg/Cm ² | | | |
| | | Average | 424.36 | Kg/Cm² | | | |

Copy to: 1. The Assistant Engineer , SD IV , WDI , 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 , WDI ,WRD, Porvorim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer