GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

| Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9817, 9818 /Lab/10/2021-22 Dated: 16/04/2021. Laboratory: Bicholim Sand -T: 5138&5139 .Cement-1247 Sub Div: V (QC)/WRD/Bicholim Goa. Sub: Improvement and protection of Intake to Lift Irrigation Scheme at Nayanwada, AnsolemV.P.Bhironda in Sattari Taluka. Sub Div: V (QC)/WRD/Bicholim Goa. Ref to requisition No: MIN/WDVI/WRD/SDII/F.62/21-22/03 Dated: 06/04/2021. Qty. Received: 1 bags each Date of Receipt: 06/04/2021 Sample: Sand, 20mm, O.S. No. 5801,5802,5828,5814 & 5791 /SS Lab. Sample No.: 1111 To 1115 12.5mm size aggrt., Cement RE P O RT 01 OF 02 Mrs. Shirodkar.JE. | | | | | | | | | |
|--|--|--|-----------------------|---|------------------|--|--|--|--|
| Sr. No. | Description of sample | Tested for | Results | Max. /Min. value permissible | Remarks | | | | |
| 1. 20 mm Size Aggregate: Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. repm ³) 2. 12.5 mm Size Aggregate: Particle size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. repm ³) Berlick Size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. repm ³) Berlick Size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. repm ³) Berlick Size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. repm ³) Berlick Size distribution: It is not single sized aggregate of 20 mm nominal size. (Qty. rep m ³) | | | | | | | | | |
| 3. | (L.S.No.1114) ii) iii) | Fineness Modulus: -Grading Zone: - | 5.55% - 2.54 II | thin the permissible limits of the coarse sand | l. | | | | |
| | (L.S.No.1113) ii) Sil iii) Fi iv) Gu | t by sedimentation: -neness Modulus: -rading Zone: - | 13.63% 2.90 I | eleterious material is 15.00% for crushed sand) I (Fine Aggregate) vide table 2 of IS 383: 201 | 6(Clause 5.2.1). | | | | |

R E P O RT 02 OF 02

| Sr. No. | Description of sample | Tested for | Results | Max. /Min. value permissible | Remarks | | | |
|---------|--|-------------------|---------------------------|--|---------|--|--|--|
| 4. | Cement: | | i)Fineness of Cement | : 1.15% (It should not be more than 10%) | | | | |
| | Ultratech.Cement, bearing IS:269 | | ii) Consistency of cement | ent : 33.00% (It should be in the neighborhood of 35%) | | | | |
| | Ordinary Portland cement, | | iii) Initial Setting Time | : 190 minutes (It should not be less than 30 minutes) | | | | |
| | Manuf. date:W/M-Invisible | | iv) Final Setting Time | : 320 minutes (It should not be more than 600 minutes) | | | | |
| | CM/L = <u>7171769</u> | | | | | | | |
| | Qty. rep. –. | | | | | | | |
| To be | To be used for -1:2:4& 1:1.5:3mixconcrete REMARK: The observed results are within the permissible limit for Ordinary Portland cement. | | | | | | | |

Copy to: 1. The Assistant Engineer, SDII, WDVI, WRD, Valpoi-Sattari – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa

4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer