

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 155,156/Lab/56/2022-23 **Dated:-** 02/ 05 /2022.

Laboratory: Bicholim

Sand –T:-5286. Cement-T:- 1366.

Sub Div: V(QC)/WRD/Bicholim Goa.

Sub:- Improvement to Nallah bank in Survey No. 32/1 and 28/1 at Saleli V.P. Honda in Sattari Taluka.

Ref to requisition No:- MIN/WDVI/WRD/SDII/f.62/22-23/27 **Dated :-** 13/04/2022

Qty. Received: 1 bags each **Date of Receipt:-** 27/04/2022 **Tested on:-** 28 & 29 /04/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 8404, 8405, 8419 & 8395/SS **Lab. Sample No.:** 4042 to 4045 **Tested by:-** Mrs. S. B. Naik Shirodkar J.E.

12.5mm size aggrt., Cement

R E P O R T 01 OF 01

| Sr. No. | Description of sample | Tested for | Results | Max. /Min. value permissible | Remark |
|---|--|---|---|--|--------|
| 1. | 20 mm Size Aggregate: | Particle size distribution: | It is single sized aggregate of 20 mm nominal size. | (Qty. rep. – --m ³) | |
| 2. | 12.5 mm Size Aggregate: | Particle size distribution: | It is not single sized aggregate of 12.5 mm nominal size. | (Qty. rep. – -- m ³) | |
| REMARK:- After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size. | | | | | |
| 3. | Crushed Sand: (L.S.No.4044) | i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone | : - 13.60% : - 14.28% : - 2.71% : - II | (Limit of Deleterious material is 15.00% for crushed sand) | |
| REMARK: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1). | | | | | |
| 4. | Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 15, M- 04, Year-2022 CM/L =0003401033 Qty. rep. – ____ --. | i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time | : 1.27% : 31.00% : 160 minutes : 320 minutes | ----- (It should not be more than 10%) (It should be in the neighborhood of 35%) ---- (It should not be less than 30 minutes) -- (It should not be more than 600 minutes) | |
| To be used for CC 1:2:4 -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, Sanchai Bhavan, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim – Goa

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

Junior Engineer

Assistant Engineer