

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 319,320/Lab/56/2023-24 **Dated:-12/05/2023.**

Laboratory: Bicholim-Goa

Sand –T:- 5388. Cement-T:- 1445.

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

Sub:- Construction of retaining wall on existing nallah from Bhatlekar house to Sahadev Kalangutkar house on both sides in ward No IX at Donwaddo, Salvador do Mundo in Porvorim Constituency.

Ref to requisition No:- WRD/MI/WDI/SDI/F.57/23-24/37 **Dated :- 28/04/2023**

Qty. Received: 1 bags each **Date of Receipt:-** 05/05/2023 **Tested on:-** 08,10,11 & 12/05/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm, **O.S. NO:-** 818,819,841,795/SS. **Lab. Sample No :-** 7046 to 7049 **Tested by:-** Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and Cement

R E P O R T 01 OF 01

| Sr. No. | Description of sample | Tested for | Results | Max. /Min. value permissible | Remarks |
|---|--|-----------------------------|--|--|---------|
| 1. | 20.00 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 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size. | | | | | |
| 3. | Coarse Sand: (L.S.No.7048) | | i) Silt & Clay by S.A. method :- 5.80% ii) Silt by sedimentation :- 4.87% iii) Fineness Modulus :- 2.41% iv) Grading Zone :- II | | |
| REMARK: The observed results are within the permissible limits of the Coarse sand. | | | | | |
| 4. | Cement: Jyoti 43 Grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible,M-04,Y-2023 CM/L = 6894808 Qty. rep. –. | | i) Fineness of Cement :- 1.29% ii) Consistency of cement :- 32.50% iii) Initial Setting Time :- 140 minutes iv) Final Setting Time :- 245 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 - REMARK: The observed results are within the permissible limit for Ordinary Portland cement. | | | | | |

Copy to: 1. The Assistant Engineer, SDI, WDI, WRD, Porvorim– Goa.

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

3. Copy Submitted to The Executive Engineer, WDI, WRD, Porvorim– Goa.

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

Junior Engineer

Assistant Engineer