

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 301,302/Lab/24/2023-24 **Dated:-17/04/2023.**

Laboratory: Bicholim-Goa

Sand –T:- 5378. Cement-T:- 1436.

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

Sub:- Construction of protection wall for nallah bank in Sy.No. 130/1, 131/1 and 131/3 from downstream of road bridge of Village Poriem in Sattari Taluka.

Ref to requisition No:- F.50/SDIV/WDVI/WRD/2023-24/03 **Dated :-** 05/04/2023

Qty. Received: 1 bags each **Date of Receipt:-** 10/04/2023 **Tested on:-** 12,13,15 & 17/04/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. NO:-** 645,646,659,647/SS. **Lab. Sample No :-** 6779 to 6782 **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.6781) | i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone | : - 4.60% : - 4.87% : - 2.47% : - II | | |
| REMARK: The observed results are within the permissible limits of the Coarse sand. | | | | | |
| 4. | Cement: Ramco 43 Grade OPC Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-14,M-April, Y-2023 CM/L = 6600075008 Qty. rep. –. | i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time | : - 1.19% :- 32.50% :- 145 minutes :- 255 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, SDIV, WDVI, WRD, Bicholim– Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, 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