

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9502, 9503 /Lab/ 345 /2019-20

Dated: 23 / 12 / 2019.

Laboratory: Bicholim

Sand –T: 4953, Cement: 1121.

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

Sub: Improvement to various nallahs in fields from Sagar Shetyes house to Prakash Shetgaonkar field, Subhas Salkar house to Eliton house at Aradi, Vetal Temple to Main nallah, Suresh Halarnkar field to main nallah at Vaddem, Survesh Volvoikar house to Pole house at Butkiwada in Village Panchayat Socorro in Porvorim Constituency.

Ref to requisition No: SDII/WDI/WRD/F. 24/2019-20/478 Dated: 12/12/2019.

Qty. Received: 1 bags each **Date of Receipt:** 13/11/2019 **Tested on:** 20 & 21/11/2019 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No.** 2884 To 2887/SS **Lab. Sample No.:** 7221 To 7224 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
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 | Remarks |
|---|---|---|---|--|---------|
| 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 the required criteria for graded aggregate of 20 mm nominal size. | | | | | |
| 3. | Sand: (L.S.No.7223) | i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone | : - 3.80% : - 4.54% : - 2.08 : - III | | |
| REMARK: The observed results are within the permissible limits of the coarse sand. | | | | | |
| 4. | Cement: Katwa cement, bearing IS:-- Ordinary Portland cement, Manuf. date: Week --, Month 12, Year'2019. CM/L = 2329450 Qty. rep. – _____. To be used for – NOT SPECIFIED. | i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time | : 1.09 % : 30.00% : 150 minutes : 285 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) | |
| REMARK: The observed results are within the permissible limit for Ordinary Portland cement. | | | | | |

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. I, WRD, Porvorim – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer