

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9667, 9668 /Lab/ 135 /2020-21

Dated: 17/ 11/ 2020.

Laboratory: Bicholim

Sand –T: 5047 , Cement: 1187

Sub Div: V (QC)/WRD/Bicholim

Sub: Improvement and strengthening to the canal lining from ch. 4.805 km to 4.970 km of RBMC of AIP at Keri, Sattari Goa.

Ref to requisition No: F.37 /SDI/WDV/AIP/WRD/2020-21/92 Dated: 12/11/2020.

Qty. Received: 1 bags each **Date of Receipt:** 12/11/2020 **Tested on:** 13,16 & 17/11/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 4219, 4220, 4227 & 4223/SS **Lab. Sample No.:** 9518 TO 9521 **Tested by:** Mrs. S. B. Naik Shirodkar. JE
Sand 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 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.9520) | i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone | : - 4.60% : - 5.81 % : - 2.21 : - III | | |
| REMARK: The observed results are within the permissible limits of the coarse sand. | | | | | |
| 4. | Cement: JK cement, bearing IS: Ordinary Portland cement, Manuf. date: Week <u>40</u> , Month <u>10</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. To be used –for PCC1:2:4 | i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time | : 1.23 % : 31.00% : 130 minutes : 260 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, SDI, WDV, Keri, 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.V, WRD, Karapur Tisk, Sankhali – Goa.
4. Q.C. Lab file
5. Bill File.

Junior Engineer

Assistant Engineer