

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9649, 9650 /Lab/ 119 /2020-21

Dated: 19/ 10/ 2020.

Laboratory: Bicholim

Sand –T: 5037,Cement T: 1179

Sub Diy: V (QC)/WRD/Bicholim

Sub: Construction of Anjuna Distributory taking off at ch. 28.97 km of the Left bank main canal of Tillari Irrigation Project in Siolim & Anjuna Village of Bardez Taluka. **Part III** : Construction of Rising main from ch.4.50km to ch. 7.29kms, Break Pressure tank (BPT), Gravity main from ch.0.00km to ch. 1.00 kms and reinstatement of allied structures for Anjuna Distributory in Siolim and Assagao Village of Bardez Taluka.

Ref to requisition No: SDIII/WDVIII/WRD/WF. 32(PART- III)/2020-21/139 Dated: 09/10/2020.

Qty. Received: 1 bags each **Date of Receipt:** 13/10/2020 **Tested on:** 13/10/2020 & 14/10/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No. :** 4144, 4145,4146 & 4150 /SS **Lab. Sample No.:** 9415 TO 9418 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.50mm 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. – 90.00 m ³) | |
| 2. | 12.50 mm Size Aggregate: | Particle size distribution: | It is not single sized aggregate of 12.50 mm nominal size. | (Qty. rep. – 90.00 m ³) | |
| REMARK: After blending 20 mm aggregate with 12.50 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.9417) | i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone | : - 4.20% : - 4.76% : - 2.27 : - III | | |
| REMARK: The observed results are within the permissible limits of the Coarse sand. | | | | | |
| 4. | Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>40</u> , Month <u>10</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. | i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time | : 1.17 % : 31.00% : 160minutes : 315 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, SDIII, WDVIII,WRD, Karaswada Bardez – Goa
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, , Karaswada Bardez – Goa .
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer