GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9851, 9852 /Lab/67 /2021-22 **Dated: 12/05/2021.** **Laboratory:** Bicholim
Sand –T: 5158. Cement-1264 **Sub Div: V (QC)/WRD/Bicholim Goa.**
Sub:-Flood control measures at Sy.No.385/9 at Bandirwada in V.P.Anjuna in Siolim Constituency.
Ref to requisition No:-WRD/MI/WDI/SDI/F.57/2021-22/42 Dated: 03/05/2021.
Qty. Received: 1 bags each **Date of Receipt**: 04/05/2021 **Tested on**: 07,08 & 10/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968
Sample: Sand,20mm, **O.S. N:-** 6129,6130,6145 & 6153 /SS **Lab. Sample No**.: 1481 To 1484 **Tested by**: Mrs. Shirodkar.JE.
12.5mm size aggrt., Cement

R E P O RT 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 1:1 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.

3. **Sand:** (L.S.No.1483)
   - i) Silt & Clay by S.A. method : - 4.20%
   - ii) Silt by sedimentation : - 5.55%
   - iii) Fineness Modulus : - 2.34
   - iv) Grading Zone : - III

   To be used for----. **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: Week14, Month 04, Year'2021.
   CM/L =0003401033
   Qty. rep. –.
   - i)Fineness of Cement : 1.24% ---------- (It should not be more than 10%)
   - ii) Consistency of cement : 30.00% (It should be in the neighborhood of 35%)
   - iii) Initial Setting Time : 165 minutes ---- (It should not be less than 30 minutes)
   - iv) Final Setting Time : 320 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, W.D. I, WRD,Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer **Assistant Engineer**