GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9799,9800/Lab/300 /2020-21 **Dated: 16/ 03/2021.** **Laboratory:** Bicholim
Sand –T: 5126. Cement-1236 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub: Construction of protection wall to Nallah Bank of property bearing Sy.No.13/1 in Kumbharkhan at Village Pissurlem in Sattari Taluka.
Ref to requisition No: WRD/WDVI/SDIV/F.50/2020-21/203 Dated: 08/03/2021.
Qty. Received: 1 bags each **Date of Receipt**: 09/03/2021 **Tested on**: 15&16/03/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968
Sample: Sand,20mm, **O.S. No.:**5439,5440, 5462 & 5422 /SS **Lab. Sample No**.: 806 To 809 **Tested by**: Mrs. S. B. Naik 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.808)
   i) Silt & Clay by S.A. method : - 5.40%
   ii) Silt by sedimentation : - 5.68%
   iii) Fineness Modulus : - 2.474
   iv) Grading Zone : - II

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:Week 05, Month 02, Year'2021
   CM/L =0003401033
   Qty. rep. –.

   i)Fineness of Cement : 1.06% ---------- (It should not be more than 10%)
   ii) Consistency of cement : 31.00% (It should be in the neighborhood of 35%)
   iii) Initial Setting Time : 175 minutes ---- (It should not be less than 30 minutes)
   iv) Final Setting Time : 330 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, W.D. VI, WRD,Bicholim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer **Assistant Engineer**