

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9881, 9882 /Lab/176/2021-22 **Dated:** 05/10/2021. **Laboratory:** Bicholim

Sand –T: 5778. Cement-1278

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

Sub:-Anti Sea Erosion and beach protection measures is State of Goa under Golden Jubilee Package Reg Urgent maintenance of existing Tatrapod structure from Ch.390.00 to Ch.690.00 mts at Keri Beach,V.P.Kerim in Mandrem Constituency.

Ref to requisition No:-MI/SDIII/WDI/WRD/F.58/2021-22/219 **Dated:** 28/09/2021.

Qty. Received: 1 bags each **Date of Receipt:** 29/09/2021 **Tested on:** 30/09/2021 & 01/10/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-**6973,6974,6975,6976/SS **Lab. Sample No.:** 2221 To 2224 **Tested by:** Mrs. 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 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.2223)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.55% : - 2.87 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Jyoti.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W/M-Invisible, Year'2021 CM/L =6894808 Qty. rep. –. To be used for –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.19% : 31.50% : 185 minutes : 340 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, WDI,WRD,Pernem – 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