

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9883, 9884 /Lab/177/2021-22 **Dated:**06 /10/2021. **Laboratory:** Bicholim

Sand –T: 5779. Cement-1279

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

Sub:-Anti Sea Erosion and beach protection measures is State of Goa under Golden Jubilee Package Reg.moving and restoration of concrete blocks in existing Pathway from Ch.547.00 to Ch.560.00 mt at Keri Beaches in Pernem Taluka.

Ref to requisition No:-MI/SDIII/WDI/WRD/F.58/2021-22/220 **Dated:** 28/09/2021.

Qty. Received: 1 bags each **Date of Receipt:** 29/09/2021 **Tested on:** 04 & 05/10/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-**6977,6978,6979,6980/SS **Lab. Sample No.:** 2225 To 2228 **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 therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.2227)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.81% : - 2.88 : - II		
4.	To be used for----. Cement: Jyoti.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W/M-Invisisble, Year'2021 CM/L =6894808 Qty. rep. –.	REMARK: The observed results are within the permissible limits of the coarse sand.	i)Fineness of Cement : 1.00% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 165 minutes iv) Final Setting Time : 350 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)	
	To be used for –.	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