

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9885, 9886 /Lab/ 181 /2021-22 **Dated:** 08/10/2021. **Laboratory:** Bicholim

Sand –T: 5780. Cement-1280

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

Sub:- Construction of road side protection wall near old pump house and CADA garage at T.I.P complex Karaswada Bardez-Goa.

Ref to requisition No.: -MI/SDIII/WDVIII/WRD/WF.79/2021-22/169 **Dated:** 30/09/2021.

Qty. Received: 1 bags each **Date of Receipt:** 04/10/2021 **Tested on:** 04.06 & 07/10/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. N.:** -6983, 6984, 6989, 6990/SS **Lab. Sample No.:** 2241 To 2244 **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.2243)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.00% : - 2.14 : - III		
To be used for----. 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. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.04% : 31.50% : 190 minutes : 345 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 –1:2:4 mix concrete. 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