

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

Test Report No.: WRD/Q.C/F.6-4/Aggr-T- 9909,9910/Lab/209/2021-22 **Dated:** 18/ 11/2021.

Laboratory: Bicholim

Sand –T:5195. Cement-1292

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

Sub: Improvement to CADA building in Tillari Irrigation Project Complex at Karaswada Bardez Goa.

Ref to requisition No.: -_SD III/WDVIII/WRD/WF.89/2021-22/209 **Dated:** 11/11/2021.

Qty. Received: 1 bags each **Date of Receipt:** 11/11/2021 **Tested on:** 12 & 13 /11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 7074, 7075, 7077 & 7073/SS **Lab. Sample No.:** 2344 To 2347 **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	Remark
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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.2346)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.12% : - 2.618% : - 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- 10 year-2021 CM/L = 6894808 Qty. rep. – ____ --.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.33% : 32.00 % : 160 minutes : 310 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, WDVIII Karaswada – Bardez – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim – Goa for kind Information.

3. Copy Submitted to The Executive Engineer, WDVIII, WRD, Karaswada – Bardez – Goa

4. Q.C. Lab file 5. Bill

Junior Engineer

Assistant Engineer