

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9841,9842 /Lab/44/2021-22 **Dated:**30/ 04/2021.

Laboratory: Bicholim

Sand –T: 5152. Cement-1258

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

Sub: Repairs and maintenance of field channels of Minor-3, Minor-4 and Minor-5 of B-6 distributory of RBMC of TIP at village and providing the new outlet to provide water to command area at ch 4.8km of B-6 distributory of RBMC of TIP in villages Torshem and Ugvein in Pernem Taluka.

Ref to requisition No: SDII/WDVII/WRD/F.23/2021-22/05 **Dated:** 16/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 22/04/2021 **Tested on:** 28 & 29/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.:** 6004, 6005, 6033 & 6013 /SS **Lab. Sample No.:** 1315 To 1318 **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.1317)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.68% : - 2.43 : - 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 16, Month 04, Year' 2021 CM/L =0003401033 Qty. rep. –.		i) Fineness of Cement : 1.13% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 180 minutes iv) Final Setting Time : 320 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, SDII, WDVII, WRD, Dhargal-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. VII, WRD, Dhargal;-Pernem – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer