

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9831, 9832 /Lab/31/2021-22 **Dated:** 26/ 04/2021. **Laboratory:** Bicholim
Sand –T: 5147. Cement-1254 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub: Improvement to the protection wall for an existing nallah from Vishwas Gaonkar house upto Prakash house and from Dominic D’Souza house upto Pandhari Divkar house at Naik Waddo, Calangute in Calangute Constituency.

Ref to requisition No.: SDII/WDI/WRD/F.24/21-22/11 **Dated:** 15/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 16/04/2021 **Tested on:** 24&25/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 5974, 5975, 5978 & 5965/SS **Lab. Sample No.:** 1216 To 1219 **Tested by:** Mrs. S. B. Naik 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.1218)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 5.31% : - 3.63 : - I		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: JK.Cement, bearing IS:489 (Fly ash based) Portland Pozzolana cement, Manuf. date: Week 15, Month 04, Year' 2021 CM/L = 0003315848 Qty. rep. – To be used for –	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.08% : 32.50% : 195 minutes : 305 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 Portland Pozzolana cement.					

- Copy to: 1. The Assistant Engineer, SDII, WDI, WRD, Mapusa-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.I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer