

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9857, 9858 /Lab/69/2021-22 Dated: 13/ 05/2021.

Laboratory: Bicholim

Sand –T: 5161 .Cement-1266

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

Sub: Construction of protection wall to nallah bank near the field of Ramchandra Gaonkar at PanasmolSy no 13/1 Village Savardem in Sattari Taluka.

Ref to requisition No: MI/WDVI/WRD/SDII/F.24/20-21/58 Dated: 07/05/2021.

Qty. Received: 1 bags each **Date of Receipt:** 07/05/2021 **Tested on:** 11,12&13/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 6160, 6161, 6180, 6169 /SS **Lab. Sample No.:** 1492 To 1495 **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 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.1494)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.31% : - 2.66 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Ultratech.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week 17, Month 04, Year' 2021 CM/L = 4798894 Qty. rep. –.		i) Fineness of Cement : 1.19% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 170 minutes iv) Final Setting Time : 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, SDII, WDVI, WRD, Valpoi-Sattari – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer