

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9825, 9826 /Lab/27/2021-22 **Dated:** 24/ 04/2021. **Laboratory:** Bicholim
Sand –T: 5144. Cement-1251 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub: Desilting of Rivulets/Poi,Agriculture fields and reconstruction of existing sluice in Savat Khazan and Kharat Khazan fields at Shirgao in Bicholim Taluka.
Sub Est.IV:-Reconstruction of sluice(Near Mharingan Temple) in Kharat Khazan at Shirgao village in Bicholim Taluka..

Ref to requisition No.:-F.36/SDIII/WDVI/WRD/2021-22/07 **Dated:** 12/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 15/04/2021 **Tested on:** 19,22 & 23/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. No.**5919,5920,5947& 5911/SS **Lab. Sample No.:** 1208 To1211 **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 therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.1210)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.81% : - 2.27 : - III		
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:W/M- Invisible. CM/L =7171769 Qty. rep. – ____--.		i)Fineness of Cement : 1.17% ii) Consistency of cement : 32.00% iii) Initial Setting Time : 160 minutes iv) Final Setting Time : 325 minutes	: 1.17% ----- (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 –PCC & RCC work. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDIII, WDVI,WRD,Mulgao – 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