

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9925,9926/Lab/223/2021-22 **Dated:** 04 /12/2021.

Laboratory: Bicholim

Sand –T:5208, Cement-T:1300

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

Sub:-“Re-Strengthening of collapse bank of nalla in Sy. No. 5 at Nagzarwada Bhoma in V.P. Bhoma Priol Constituency of Ponda Taluka”.

Ref to requisition No:-WRD/WDXI/SDIV /F.CF/356/2021-22 **Dated:** 26/10/2021.

Qty. Received: 1 bags each **Date of Receipt:** 23/11/2021 **Tested on:** 24,25 & 26/11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-**7118,7119,7125, & 7113/SS **Lab. Sample No.:** 2404 To 2407 **Tested by:** Mrs. S.B.Naik Shirodkar.JE.
12.5mm size aggrt., Sand, 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.2406)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.71% : - 3.71 : - I		
To be used for----. REMARK: The observed results are within the permissible limits of the Coarse Sand.					
4.	Cement: Ultra Tech Cement 43 grade, bearing IS:269 Ordinary Portland cement, Manuf. date: W- - M-10, Year -2021 CML =7171769 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.06% : 31.50% : 175 minutes : 325 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 C.C 1:2:4 –. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDIV, WDXI,WRD, Ponda– Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. XI, WRD,Ravonfond, Navelim Salcete – Goa

4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer

