

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9929,9930/Lab/226/2021-22 **Dated:** 08 / 12 /2021.

Laboratory: Bicholim - Goa

Sand –T:5210. Cement-T:1302

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

Sub:-Construction of retaining wall from Foro Manas to Rufino House at Church Waddo in V.P. St. Estevam in Cumbharjua Constituency, Tiswadi Taluka.

Ref to requisition No.:-WRD/MI /WDI/SDI/ F.57/2021-22/434 **Dated:** 30/11/2021.

Qty. Received: 1 bags each **Date of Receipt:** 30/11/2021 **Tested on:** 01,02 & 03/12/2021

Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N.:** 7148,7149,7159 & 7152/SS **Lab. Sample No.:** 2437 To 2440
12.5mm size aggrt., sand, Cement

Tested by: Mrs. Shirodkar.JE.

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.	Coarse Sand: (L.S.No.2439)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 4.87% : - 2.59 : - II		
To be used for----. REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	J.K.Cement: J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-43, M-10, Year-2021 CML =0003401033 Qty. rep. –.		i)Fineness of Cement : 1.03 % ii) Consistency of cement : 31.50% iii) Initial Setting Time : 150 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)	
To be used for –. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDI, WDI,WRD,Porvorim – 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