

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9737, 9738 /Lab/ 234 /2020-21
Sand –T: 5100 & 5104 . Cement-1220

Dated: 10/ 02 / 2021.

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

Sub: Construction of flood protection wall for Orando river from Orando Jetty to Shri Madhu Halankar house, at Orando, Madel, Chodan, in Bicholim Taluka

Ref to requisition No: F.230/WRD/WDVI/SDI/492/2020-21 Dated: 29/01/2021.

Qty. Received: 1 bags each **Date of Receipt:** 02/02/2021 **Tested on:** 05,06,07 & 08/01/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4931,4932, 4949, 4968 & 4917 /SS **Lab. Sample No.:** 314 To 318 **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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.316)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 4.54% : - 2.49 : - II	Sand: (L.S.No.317)	i) Silt & Clay by S.A. method : - 5.00% ii) Silt by sedimentation : - 4.65% iii) Fineness Modulus : - 2.00 iv) Grading Zone : - IV
To be used for – 1:2:4 concrete work. REMARK: The observed results are within the permissible limits of the coarse sand & Fine sand.					
4.	Cement: J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>03</u> , Month <u>01</u> , Year' <u>202</u> CM/L = <u>0003401033</u> Qty. rep. – _____.		i) Fineness of Cement : 1.06 % ii) Consistency of cement : 32.00% iii) Initial Setting Time : 180 minutes iv) Final Setting Time : 295 minutes	: 1.06 % ----- (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, WDVI, WRD, Bicholim – 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