

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9727, 9728 /Lab/ 205 /2020-21
Sand -T: 5087 Cement-1216

Dated: 20/ 01 / 2020.

Laboratory: Bicholim

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

Sub:- Construction of riverside retaining wall from Ribandar ferry ramp to Shri Damodar K. Naik house in ward no.30 at Ribandar, in Panaji Constituency.

Ref to requisition No: MI/SDIV/WDI/WRD/F.38/20-21/497 Dated: 12/01/2021.

Qty. Received: 1 bags each **Date of Receipt:** 13/01/2021 **Tested on:** 14,15,16/01/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4705,4706, 4720, 4707/SS **Lab. Sample No.:** 87 To 90 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt., Cement

R E P O R T 01 O F 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.89)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.20% : - 2.82% : - 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 <u>01</u> , Month <u>01</u> , Year' <u>2020</u> . CM/L = <u>7171769</u> Qty. rep. – _____. To be used for – _____.		i) Fineness of Cement : 1.089 % ii) Consistency of cement : 31.00% iii) Initial Setting Time : 135 minutes iv) Final Setting Time : 245 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, SDIV, 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