

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9550 , 9551 /Lab/ 424 /2019-20
Sand –T: 4981 , Cement: 1139.

Dated: 05/ 02 / 2020.

Laboratory: Bicholim

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

Sub: Construction of nallah protection wall from Devichi Tali house up to Harmal beach at Khalchawada in Mandrem Constituency.

Ref to requisition No: MI/SDIII/WDI/WRD/F. 58/2019-20/340 Dated: 30/01/2020.

Qty. Received: 1 bags each **Date of Receipt:** 03/02/2020 **Tested on:** 03,04 & 05/02/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 3156,3157,3181 & 3172 /SS **Lab. Sample No.:** 7813 To 7816 **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 <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.7815)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 5.68% : - 2.49 : - 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>02</u> , Month <u>01</u> , Year' <u>2020</u> . CM/L = <u>7171789</u> Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.99 % : 31.00% : 130 minutes : 255 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, SDIII, WDI,WRD, Pernem – 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