

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9665, 9666 /Lab/ **133** /2020-21

Dated: 13/ 11 / 2020.

Laboratory: Bicholim

Sand –T: 5046 , Cement: 1186.

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

Sub: Construction of protection wall on Nallah bank in Property bearing survey No. 79/11 in Goankarwada at village Honda in Sattari Taluka.

Ref to requisition No: SDIV/WDVI/WRD/F. 50/2020-21/104 Dated: 06/11/2020.

Qty. Received: 1 bags each **Date of Receipt:** 09/11/2020 **Tested on:** 11, 12 & 13/11/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4213,4214,4205 & 4215/SS **Lab. Sample No.:** 9513 To 9516 **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.	Course Sand: (L.S.No.9515)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.43% : - 2.88 : - 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>42</u> , Month <u>-10</u> Year' <u>2020</u> . CM/L = <u>7171769</u> Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.23 % : 33.00% : 200 minutes : 315 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, SDIV, 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