

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9556, 9557 /Lab/ 444/2019-20

Dated: 20 / 02/ 2020.

Laboratory: Bicholim

Sand –T: 4985, Cement: 1142.

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

Sub: Improvement to existing nallah bank in Sy.No. 153/3, Situated behind Raju Garage up to NH17 near Tar Junction, Bastora in Aldona Constituency.

Ref to requisition No: SDII/WDI/WRD/F. 24/2019-20/590 Dated: 04/02/2020.

Qty. Received: 1 bags each **Date of Receipt:** 07/02/2020 **Tested on:** 10,12,13 & 14/02/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 3210,3211,3236 & 3212 /SS **Lab. Sample No.:** 7901 To 7904 **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.	Coarse sand: (L.S.No.7903)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.80% : - 4.54% : - 2.34 : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: JK. cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>06</u> , Month <u>02</u> . Year' <u>2020</u> . CML = 0003401033 Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.12 % : 31.50% : 150 minutes : 265 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, SDII, WDI,WRD, Mapusa – 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