

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9534 , 9535 /Lab/ 390 /2019-20
Sand –T: 4971 , Cement: 1135.

Dated: 17/ 01 / 2020.

Laboratory: Bicholim

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

Sub: Construction of Branches 1,2 & 3 and field channels of Bastora Minor –I off taking at Ch.33.610 km of LBMC of TIP at Bastora village, Bardez Taluka

Ref to requisition No: SDIII/WDVIII/WRD/WF. 52/2019-20/240 Dated: 07/01/2020.

Qty. Received: 1 bags each **Date of Receipt:** 10/01/2020 **Tested on:** 14 & 15/01/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 3051,3052,3066 & 3053 /SS **Lab. Sample No.:** 7618 To 7621 **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.7620)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.20% : - 4.08% : - 2.40 : - 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 --, Month 01, Year'2020. CM/L = <u>7171769</u> Qty. rep. – _____. To be used for – M-15 Grade Concrete.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.33 % : 30.50% : 160 minutes : 285 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, WDVIII,WRD, Karaswada, Bardez – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, Karaswada, Bardez – Goa

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer