

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9560, 9561 /Lab/ 452 /2019-20

Dated: 26/ 02/ 2020.

Laboratory: Bicholim

Sand –T: 4987,Cement T: 1144

Sub Div: V (QC)/WRD/Bicholim

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. 52/2019-20/287 Dated: 13/02/2020.

Qty. Received: 1 bags each **Date of Receipt:** 15/02/2020 **Tested on:** 18,19 & 20/02/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No. :** 3249,3250,3273 & 3251 /SS **Lab. Sample No.:** 7932 TO 7935 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.50mm 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.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.50 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.7934)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.00% : - 4.54% : - 2.34 : - III		
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> . CML = <u>7171789</u> Qty. rep. – _____. To be used for – M15 grade PCC.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.13 % : 30.50% : 155minutes : 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, 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