

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9507, 9508 /Lab/ 354 /2019-20

Dated: 26/ 12/ 2019.

Laboratory: Bicholim

Sand –T: 4955,4956 , Cement: 1123

Sub Div: V (QC)/WRD/Bicholim

Sub: Maintenance and repairs to field channels of DWC 45 at Koti & DWC -44 in Carapur village, Bicholim Taluka for the year 2019 -20.

Ref to requisition No: F.174 /SDII/WDV/AIP/WRD/2019-20/191 Dated: 20/12/2019.

Qty. Received: 1 bags each **Date of Receipt:** 20/12/2019 **Tested on:** 21 & 23/12/2019 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1988

Sample: Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 2892 TO 2896/SS **Lab. Sample No.:** 7273 TO 7277 **Tested by:** Mrs. S. B. Naik Shirodkar. JE
Sand and 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.7275)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.40% : - 5.43 % : - 2.07 : - III	Fine Sand: (L.S.No.7276)	i) Silt & Clay by S.A. method : - 3.00% ii) Silt by sedimentation : - 5.55 % iii) Fineness Modulus : - 2.00 iv) Grading Zone : - IV
REMARK: The observed results are within the permissible limits of the coarse and fine sand.					
4.	Cement: J.K. cement, bearing IS: Ordinary Portland cement, Manuf. date: Week 47, Month -11, Year'2019. CM/L =_ 0003401033 Qty. rep. – _____. To be used – NOT SPECIFIED	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.99 % : 32.00% : 150 minutes : 260 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, WDV, WRD, Karapur Tisk, Sankhali – Goa
 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
 3. Copy Submitted to The Executive Engineer, W.D.V, WRD, Karapur Tisk, Sankhali – Goa.
 4. Q.C. Lab file
 5. Bill File.

Junior Engineer

Assistant Engineer