

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9673, 9674 /Lab/ 140 /2020-21

Dated: 28/ 11/ 2020.

Laboratory: Bicholim

Sand –T: 5050 & Cement: 1190

Sub Div: V (QC)/WRD/Bicholim

Sub: Construction of Tivim Minor from ch. 2.29 km to ch. 3.86 km of LBMC of TIP at Tivim Village in Bardez Taluka.

Ref to requisition No: SDIII/WDVIII/WRD/WF. 51/2020-21/196 Dated: 17/11/2020.

Qty. Received: 1 bags each **Date of Receipt:** 18/11/2020 **Tested on:** 21,23 & 24/11/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No. :** 4251,4252,4266 & 4265 /SS **Lab. Sample No.:** 9562 TO 9565 **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.	10.0 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 10.0 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 10.0 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.9564)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 4.34 % : - 2.528 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K cement, bearing IS: 269 Ordinary Portland cement, Manuf. date: Week 42, Month 10 Year'2020. CM/L = 0003401033	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.13 % : 32.00% : 175 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 – 1:2:4 and 1:1.5:3 Mix Concrete .

REMARK: The observed results are within the permissible limit for Ordinary Portland cement.

- Copy to: 1. The Assistant Engineer, SDIII, WDVIII, 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