

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9632, 9633,9634 /Lab/ **50** /2020-21

Dated: 15/ 06 / 2020.

Laboratory: Bicholim

Sand –T: 5029 , Cement: 1171.

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

Sub: Improvement to existing bandhara at D/S of Vehicular bridge at Assonara. Reg. Construction of side protection wall at RHS Bank of Assonara..

Ref to requisition No: SDIII/WDVI/WRD/F. 36/2020-21/32 Dated: 08/06/2020.

Qty. Received: 1 bags each **Date of Receipt:** 09/06/2020 **Tested on:** 11 & 12/06/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,40mm, 20mm, **O.S. No.** 3874,3875,3876,3888 & 3879/SS **Lab. Sample No.:** 9173 To 9177 **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.	40 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 40 mm nominal size.	(Qty. rep. – --- m ³)	
2.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m ³)	
3.	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: 1. After blending 40 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 40 mm nominal size.					
2. 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.					
4.	Sand: (L.S.No.9176)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.20% : - 4.65% : - 2.62 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
5.	Cement: J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>19</u> , Month <u>05</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____ To be used for – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.98 % : 31.50% : 170 minutes : 270 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, WDVI,WRD, Mulgao – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer