

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T- 145,146/Lab/43/2022-23 **Dated:** 23/04/2022. **Laboratory:** Bicholim-Goa
Sand –T: 5279, 5280. **Cement-T:** 1361. **Sub Div:** V(QC)/W.D.VIII/Bicholim Goa.

Sub: Improvement and repair to Existing Tali near the house of Shri Vithal Velgekar at lower sawaribhat, velguem in Bicholim Taluka.

Ref to requisition No.: -F.242/WRD/WDVI/SDI/20/22-23 **Dated:** 16/04/2022.

Qty. Received: 1 bags each **Date of Receipt:** 18/04/2022 **Tested on:** 18,19, 20 & 21/04/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 8247, 8248, 8258, 8273 & 8250/SS **Lab. Sample No.:** 3882 to 3886 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.5mm size aggrt., Sand, Cement

R E P O R T 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
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 1:1 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Coarse Sand: (L.S.No.3884)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.26% : - 2.14% : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Fine Sand: (L.S.No.3885)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.71% : - 1.86% : - IV		
REMARK: The observed results are within the permissible limits of the Fine sand.					
	To be used for----				

Junior Engineer

Assistant Engineer

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R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
5.	Cement: Jyoti Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-14, M--, Y- 2022 CM/L = 6894808 Qty. rep. – ____ --. To be used for –		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.33% ----- (It should not be more than 10%) : 33.00% (It should be in the neighborhood of 35%) : 175 minutes ---- (It should not be less than 30 minutes) : 315 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, SDI, WDVI, WRD, Bicholim-Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim-Goa for kind Information

3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim – Goa

4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer