

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

Test Report No.: WRD/Q.C. / F.6-4 /Aggr-T- 257,258/Lab/276/2022-23 **Dated:** 14/02/2023. **Laboratory:** Bicholim-Goa
Sand –T: 5349,5350. Cement-T: 1412 **Sub Div:** V (QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of Tank (Tali) and Protection wall in ward No. 1 of Village Panchayat, Velguem in Sankhali Constituency.

Ref to requisition No.: F.251/WRD/WDVI/SDI/405/22-23. **Dated:** 06/02/2023.

Qty. Received: 1 bags each **Date of Receipt:** 06/02/2023 **Tested on:** 10,11,12 & 13/01/2023 **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 158,159,171,188,139/SS. **Lab. Sample No.:** 6152 To 6156 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.50mm size Aggr, Sand, and 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 20.00 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 **1:1** by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.

3.	Coarse Sand: (L.S.No.6154)	i) Silt & Clay by S.A. method	: - 4.80 %
		ii) Silt by sedimentation	: - 4.25 %
		iii) Fineness Modulus	: - 3.34 %
		iv) Grading Zone	: - I

REMARK: The observed results are within the permissible limits of the Coarse sand.

4.	Fine- Sand (L.S.No.6155)	i) Silt & Clay by S.A. method	: - 4.20 %
		ii) Silt by sedimentation	: - 4.76 %
		iii) Fineness Modulus	: - 1.94 %
		iv) Grading Zone	: - IV

REMARK: The observed results are within the permissible limits of the Fine sand.

Junior Engineer

Assistant Engineer

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Sample: Sand, 20mm, **O.S. No.** 158,159,171,188,139/SS. **Lab. Sample No.:** 6152 To 6156 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.50mm size Aggr, Sand, and Cement

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
5.	Cement: JK 43 Grade OPC Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 03, M- 01, Y- 2023 CM/L =_0003401033 Qty. rep. – To be used for–		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.17 % ----- (It should not be more than 10%) : 30.00 % (It should be in the neighborhood of 35%) : 145 minutes ---- (It should not be less than 30 minutes) : 280 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