

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T- 129,130/Lab/14/2022-23 **Dated:** 08/04/2022. **Laboratory:** Bicholim-Goa
Sand –T: 5269, 5270. **Cement-T:** 1353 **Sub Div:** V(QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of Bandhara (Rajwalacho bandh) at Village Golauli in V.P. Dongurli Thane in Sattari Taluka.

Ref to requisition No.: -MIN/WDVI/WRD/SDII/F.62/22-23/03 **Dated:** 04/04/2022.

Qty. Received: 1 bags each **Date of Receipt:** 05/04/2022 **Tested on:** 06,07 & 08/04/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 8046, 8047, 8069, 8067 & 8023/S.S. **Lab. Sample No.:** 3752 To 3756 **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.	Crushed Sand: (L.S.No.3754)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 10.80% : - 11.11% : - 2.89% : - I	(Limit of Deleterious material is 15.00% for crushed sand)	
REMARK: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).					
4.	Coarse Sand (L.S.No.3801)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80% : - 5.00% : - 2.34% : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					

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: Ultratech Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-11, M-03, Y- 2022 CM/L = 4799804 Qty. rep. – ____ --.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.27% ----- (It should not be more than 10%) : 31.50% (It should be in the neighborhood of 35%) : 165 minutes ---- (It should not be less than 30 minutes) : 300 minutes -- (It should not be more than 600 minutes)	
To be used for – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII, WDVI, WRD, Valpoi-Sattari-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