

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9606, 9607 /Lab/ 18 /2020-21

Dated: 18/ 05 / 2020.

Laboratory: Bicholim –Goa.

Sand –T: 5015,5016 , Cement: 1161.

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

Sub: : Construction of Bandhara (Rajwalacho bandh) at Village Golauli in VP Dongurli – Thana in Sattari Taluka.

Ref to requisition No: SDII/WDVI/WRD/F. 62/2020-21/14 Dated: 07/05/2020.

Qty. Received: 1 bags each **Date of Receipt:** 12/05/2019 **Tested on:** 13,15 & 16/05/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 3583,3584, 3590 To 3592/SS **Lab. Sample No.:** 8627 To 8631 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt, cement.

R E P O R T 01 OF 02

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.	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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	M. Sand: (L.S.No.8629)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 9.60% : - 10.41% : - 3.07 : - 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.8630)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 5.55% : - 2.22 : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					

Junior Engineer

Assistant Engineer

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12.5mm size aggrt, cement.

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks	
5.	Cement: J.K Super cement, bearing IS:269 Ordinary Portland Cement, Manuf. date: Week 12, Month 03, Year 2020. CM/L = 0003401033 Qty. rep. – _____ To be used for – For Mix 1:2:4 & 1:1.5:3.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.28 % ----- (It should not be more than 10%) : 31.50 % (It should be in the neighborhood of 35%) : 145 minutes ---- (It should not be less than 30 minutes) : 285 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, SDII, WDVI,WRD, Valpoi - Sattari – 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