

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

Test Report No.: WRD/QC/F.6-4/Aggr-T:- 139,140/Lab/30/2022-23 **Dated:** 12/ 04/2022.

Laboratory: Bicholim-Goa.

Sand -T:-5275. Cement-T:-1358.

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

Sub: Construction of Branches 1, 2 & 3 and field channels of Bastora Minor I-offtaking at ch.33.610 km of LBMC of TIP at Bastora village, Bardez Taluka.

Ref to requisition No.:- S.DIII/W.D.VIII/W.R.D./W.F.52/2022-23/328

Dated: 04/04/2022.

Qty. Received: 1 bags each **Date of Receipt:** 07/04/2022

Tested on:- 10 & 11 /04/2022

Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 8135, 8136, 8171 & 8120/SS

Lab. Sample No.: 3795 to 3798

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	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.	Sand: (L.S.No.3797)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.55% : - 2.33% : - II		
		REMARK: The observed results are within the permissible limits of the coarse sand.			
4.	Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 12, M- 03, Year-2022 CM/L =0003401033 Qty. rep. – ____-- To be used for CC 1:3:6, 1:2:4 & 1:1.5:3	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.10% : 30.00% : 175 minutes : 330 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, WDVIII, WRD, Karaswada– Bardez– Goa.

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

3. Copy Submitted to The Executive Engineer, WDVIII, WRD, Karaswada - Bardez – Goa

4. Q.C. Lab file 5. Bill

Junior Engineer

Assistant Engineer