

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T-9945,9946 /Lab/249/2021-22 **Dated:** 05 / 01 /2022. **Laboratory:** Bicholim – Goa.
Sand –T:5220, 5221 Cement-T:1310 **Sub Div:** V(QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of open type Bandhara at Paynin – Joshibhat Surla of Bicholim Taluka.

Ref to requisition No.: -F.233/WRD/WDVI/SDI/382/21-22 **Dated:** 20/12/2021.

Qty. Received: 1 bags each **Date of Receipt:** 23/12/2021 **Tested on:** 24,27,28 & 29/12/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 7231,7232,7250,7247 & 7238/S.S. **Lab. Sample No.:** 2524 To 2528 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.5mm size aggrt., Sand, 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.	Coarse Sand: (L.S.No.2526)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80% : - 5.55% : - 2.71% : - II	4. Fine Sand: (L.S.No.2527)	i) Silt & Clay by S.A. method : - 5.60% ii) Silt by sedimentation : - 5.26% iii) Fineness Modulus :- 1.91 iv) Grading Zone :- IV
REMARK: The observed results are within the permissible limits of the Coarse & Fine sand.					
5.	Cement: Dalmia Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:W- 48, M- Nov. , Y-2021 CM/L =6200022577 Qty. rep. – ____ --.		i) Fineness of Cement : 1.40% ii) Consistency of cement : 32.50 % iii) Initial Setting Time : 175 minutes iv) Final Setting Time : 310 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)	
To be used for – 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