

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9939, 9940/Lab/ 241/2021-22 **Dated:** 03 / 01 / 2022 . **Laboratory:** Bicholim
Sand –T: 5216. Cement-1307 **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:-Improvement Kodo Katar bund along the bank of Chapora river at Camurlim in Tivim Constituency.

Ref to requisition No.:-SDII/WDI/WRD /F.24/2021-22/339 **Dated:** 30/11/2021.

Qty. Received: 1 bags each **Date of Receipt:** 16/12/2021 **Tested on:** 20 & 21/12/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N.:-** 7206, 7207, 7210 & 7205 /SS **Lab. Sample No.:-** 2483 To 2486 **Tested by:-** Mrs. 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	Remarks
1.	20.00 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 the required criteria for graded aggregate of 20 mm nominal size.					
3.	Coarse Sand: (L.S.No.2485)		i) Silt & Clay by S.A. method : - 5.60% ii) Silt by sedimentation : - 5.40% iii) Fineness Modulus : - 2.47 iv) Grading Zone : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Ultratech Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- -, M- 11, Year -2021 CM/L = - 7171769 Qty. rep. –.		i) Fineness of Cement : 1.27% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 170 minutes iv) Final Setting Time : 300 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, SDII, WDI,WRD, Mapusa -Bardez – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer