

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

Test Report No.: WRD/Q.C. / F.6-4 /Aggr-T- 229,230/Lab/219/2022-23 **Dated:** 28/12/2022. **Laboratory:** Bicholim-Goa
Sand –T: 5332 Cement-T: 1399. **Sub Div: V (QC)/W.D.VIII/Bicholim Goa.**

Sub: Improvement to canal Lining of Sal Distributary of LBMC of TIP from ch.0.942km to ch.1.450km in Bicholim Taluka.

Ref to requisition No:- SDIV/WDVIII/WRD/F.WF-410/2022-23/153 **Dated:** 17/12/2022.

Qty. Received: 1 bags each **Date of Receipt:** 21/12/2022 **Tested on:** 22 & 23/12/2022. **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 857,860,861,862/RK. **Lab. Sample No.:** 5509 To 5512 **Tested by:** Mrs. R.R. Kadam A.E.
12.5mm size Aggr, Sand, and Cement

R E P O R T 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	Cement: Ultratech Super Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:W-46, M-11, Y- 2022 CM/L =_6200055693 Qty. rep. – ____ -- To be used for -----	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.42 % :- 30.00 % :- 130 minutes :- 325 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.					
3.	Coarse Sand : (L.S.No.5510)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	:- 5.80 % :- 4.76 % :- 2.75 % :- II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
5.	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.					

Copy to:1. The Assistant Engineer, SD IV, WD VIII, W.R.D, Dodamarg-Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD,Sinchai Bhavan Porvorim-Goa for kind Information

3. Copy Submitted to The Executive Engineer, WD VIII, W.R.D, Karaswada Bardez-Goa.

4. Q.C. Lab file 5. Bill File.

Assistant Engineer