

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 293,294/Lab/13/2023-24 **Dated:-10/04/2023.**

Laboratory: Bicholim-Goa

Sand –T:- 5374. Cement-T:- 1431.

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

Sub:- Construction of flood Protection wall from Childrens Park to Vithal Karapurkars House in V.P. Penha de Franca in Porvorim Constituency.

Ref to requisition No:- WRD/MI/WDI/SDI/F.57/2023-24/530 **Dated :- 29/03/2023**

Qty. Received: 1 bags each **Date of Receipt:-** 01/04/2023 **Tested on:-** 04,05 & 06/04/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. NO:-** 1050/RK & 596,597,570/SS. **Lab. Sample No :-** 6706 to 6709 **Tested by:-** Mrs. R.R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and 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.6708)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 4.44% : - 2.54% : - III		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: Jyoti OPC 43 Grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible,M-03,Y-2023 CM/L = 6894808 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.28% :- 31.50% :- 165 minutes :- 270 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, WDI, WRD, Porvorim– Goa.

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

3. Copy Submitted to The Executive Engineer, WDI, WRD, Porvorim– Goa.

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

Junior Engineer

Assistant Engineer