

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 275,276/Lab/309/2022-23 **Dated:-15/03/2023.** **Laboratory:** Bicholim-Goa
Sand –T:- 5364. Cement-T:- 1422. **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub:- Improvement to the Waterways by construction of retaining wall to the eroded bank of Nallah in Survey no.143/1 in Mulgao Village in Bicholim Taluka.

Ref to requisition No:- F.36/SDIII/WDVI/WRD/2022-23/87 **Dated :-** 08/03/2023

Qty. Received: 1 bags each **Date of Receipt:-** 08/03/2023 **Tested on:-** 09,10,13 & 14/03/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm, **O.S. NO:-** 999,1000/RK & 405,368/SS. **Lab. Sample No :-** 6414 to 6417 **Tested by:-** Mrs. R.R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.
12.50mm 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.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.50 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.6416)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.66% : - 2.80% : - II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: JK 43 Grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible, M-02,Y-2023 CM/L = 0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: - 1.19% : - 30.00% : - 140 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, SDIII, WDVI, WRD, Mulgao– Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, 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