

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 307,308/Lab/33/2023-24 **Dated:-25/04/2023.**

Laboratory: Bicholim-Goa

Sand –T:- 5382. Cement-T:- 1439.

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

Sub:- Improvement to the existing nallah in Sy.No. 274 and 606/1 at Mazalwaddo in V.P. Anjuna in Siolim Constituency.

Ref to requisition No:- WRD/MI/WDI/SDI/F.57/23-24/09 **Dated :- 06/04/2023**

Qty. Received: 1 bags each **Date of Receipt:-** 19/04/2023 **Tested on:-** 20,21,23 & 24/04/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. NO:-** 1083/RK & 693,694,714/SS. **Lab. Sample No :-** 6868 to 6871 **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 O F 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.6870)		i) Silt & Clay by S.A. method :- 4.40% ii) Silt by sedimentation :- 4.08% iii) Fineness Modulus :- 2.44% iv) Grading Zone :- II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: Ramco 43 Grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W.M-Invisible,Y-2023 CM/L = 6600075008 Qty. rep. –.		i) Fineness of Cement :- 1.13% ii) Consistency of cement :- 30.00% iii) Initial Setting Time :- 140 minutes iv) Final Setting Time :- 265 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