

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 235,236/Lab/235/2022-23 **Dated:-**07/01/2023.

Laboratory: Bicholim

Sand –T:- 5335. **Cement-T:-** 1401.

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

Sub:- Improvement to Protection wall of Nallah Near Sarmalkar Shop V.P. Varkhand in Pernem-Taluka.

Ref to requisition No:- MI/S.D.III/WRD/WD-I/F.No-58/2022-23/270 **Dated :-** 27/12/2022

Qty. Received: 1 bags each **Date of Receipt:-** 28/12/2022 **Tested on:-** 31/12/2022 & 02,03/01/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. NO:-** 9604,9605,9631 & 9597/SS **Lab. Sample No.:-** 5580 to 5583 **Tested by:-** Mrs. S. B. Naik Shirodkar J.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	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.5582)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.88% : - 2.4% : - II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: Dalmia Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-M- Invisible,Y-2022 CM/L = 6200022577 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: - 1.30% : - 33.00% : - 130 minutes : - 255 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, WDI, WRD, Pernem– Goa.

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

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

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

Junior Engineer

Assistant Engineer