

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9879,9880 /Lab/ 172/2021-22 Dated: 08/09/2021.

Laboratory: Bicholim

Sand –T: 5176,5177. Cement-1277

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

Sub:- Stabilization of Hill with RCC retaining wall behind the house of Shri. Anil.Y.Ambeskar & Others at Ambeshi Pale in Sankhali Constituency.

Ref to requisition No: F.234/WRD/WDVI/SDI/232/21-22 Dt:- 30 / 08/ 2021

Qty. Received: 1 bags each **Date of Receipt:** 30/08/2021 **Tested on:** 02,03,04,06/09/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 6923, 6924, 6927, 6935, 6939/SS **Lab. Sample No.:** 2171 to 2175 **Tested by:** Mrs. Shirodkar.JE.

12.5mm size aggrt., Cement

REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 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 therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.2173)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.71 % : - 3.67% : - I		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Sand: (L.S.No.2174)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 6.00% : - 7.50% : - 1.49% : - IV		
REMARK: The observed results are within the permissible limits of the Fine sand.					

Junior Engineer

Assistant Engineer

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
5.	<u>Cement:</u> Jyoti Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W/M- Invisible Year'2021. CM/L =6894808 Qty. rep. – To be used for – -----.		i)Fineness of Cement : 1.10% ii)Consistency of cement : 31.50% iii) Initial Setting Time : 155 minutes iv) Final Setting Time : 330 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)	
<u>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</u>					

- Copy to: 1. The Assistant Engineer, SDI, WDVI,WRD,Bicholim – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.VI, WRD, Bicholim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer