

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 327,328/Lab/76/2023-24      **Dated:-**26/05/2023.

**Laboratory:** Bicholim-Goa

**Sand –T:- 5393.    Cement-T:- 1449.**

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

**Sub:-** Improvement to the existing tali and construction of protection wall to the bank of agricultural fields near Mahadev Temple in Piligao Village of Bicholim Taluka.

**Ref to requisition No:-** F.36/SDIII/WDVI/WRD/2023-24/20.      **Dated :-** 12/05/2023

**Qty. Received:** 1 bags each      **Date of Receipt:-** 22/05/2023      **Tested on:-** 22,23 & 24/05/2023.      **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm,      **O.S. NO:-** 1273,1272,1297,1274/RK .      **Lab. Sample No :-** 7167 to 7170      **Tested by:-** Mrs. R.R. Kadam A.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.	<b>20.00 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m <sup>3</sup> )	
2.	<b>12.50 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – -- m <sup>3</sup> )	
<b>REMARK:</b> After blending 20 mm aggregate with 12.50 mm aggregates at the ratio of <b>1:1</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Coarse Sand:</b> (L.S.No.7169)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	:- 5.30% :- 5.56% :- 2.142% :- III		
<b>REMARK:</b> The observed results are within the permissible limits of the Coarse sand.					
4.	<b>Cement:</b> Ramco 43 Grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-21,M-05,Y-2023 CM/L = 6600075008 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.2% :- 32.50% :- 160 minutes :- 260 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 - <b>REMARK:</b> 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.

**Assistant Engineer**