

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9570, 9571 /Lab/ 462 /2019-20
Sand –T: 4994, Cement-T- 1147

Dated: 02/ 03//2020 **Laboratory:** Bicholim
Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Construction of protection wall to nallah bank of property bearing survey No. 60/2 in Gaonkarwada at village Honda in sattari Taluka.

Ref to requisition No: WRD/WDVI/SDIV /F.73/19-20/759 dt. 19-02-2020.

Qty. Received: 1 bags each **Date of Receipt:** 20/02/2020 **Tested on:** 21 & 22/02/2020 **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1988

Sample: 20mm, 12.50mm size aggrt, **O.S. No.** 1792 To 1795 /AF **Lab. Sample No.:** 8019 To 8022 **Tested by:** Mr. Anil R. Fadte, JE.
Sand, Ultratech cement.

REPORT 01 OF 01

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. – 45 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. – 45 m ³)	
REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:2</u> by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand:	i) Silt & Clay by S.A. method	: - 4.00%		
		ii) Silt by sedimentation	: - 4.88%		
		iii) Fineness Modulus	: - 2.45		
		iv) Grading Zone	: - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement:	i) Fineness of Cement	: 1.57%	----- (It should not be more than 10%)	
	Ultratech super cement, bearing IS:269	ii) Consistency of cement	: 31.00%	(It should be in the neighborhood of 35%)	
		iii) Initial Setting Time	: 130 minutes	---- (It should not be less than 30 minutes)	
	Manuf. date: Week 04, Month 01, Year'2020.	iv) Final Setting Time	: 270 minutes	-- (It should not be more than 600 minutes)	
	CM/L =				
	Qty. rep. –bags				
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDIV, 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