

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9715, 9716 /Lab/ 187 /2020-21
Sand –T: 5079 Cement: 1210.

Dated: 05 / 01 / 2021.

Laboratory: Bicholim

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

Sub Improvement to Flood protection wall from Francis Edward House to Thoteshwar Temple at Malim, Village Panchayat Penha – De- Franca in Porvorim Constituency.

Ref to requisition No: SDII/WDI/WRD/F. 24/2020-21/280 Dated: 26/10/2020.

Qty. Received: 1 bags each **Date of Receipt:** 28/12/2020 **Tested on:** 01 & 02/01/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4541,4542,4546 & 4534/SS **Lab. Sample No.:** 9854 To 9857 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt, 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 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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.9856)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 4.34% : - 2.41 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K.cement, bearing IS: Ordinary Portland cement, Manuf. date: Week <u>49</u> , Month <u>12</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. To be used for – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.13 % : 31.00% : 175 minutes : 280 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)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa, Bardez – Goa.

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

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

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer