

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9709, 9710 /Lab/ 188 /2020-21

Dated: 05 / 01/ 2021.

Laboratory: Bicholim

Sand –T: 5075,Cement T: 1207

Sub Div: V (QC)/WRD/Bicholim

Sub: Construction of protection wall to the collapsed side of canal cutting on the left side of Sanquelim branch canal at ch. 11.900 km on U/S of bridge at Mulgoa Bicholim Goa.

Ref to requisition No: SDVI/WDVIII/WRD/F. 26/2020-21/113 Dated: 16/12/2020.

Qty. Received: 1 bags each **Date of Receipt:** 23/12/2020 **Tested on:** 26,27 & 28/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4485,4486,4495 & 4499 /SS **Lab. Sample No.:** 9807 To 9810 **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.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – --_m ³)	
REMARK: After blending 20 mm aggregate with 12.50 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.9809)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 4.44% : - 2.48 : - II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>50</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	: 0.998 % : 31.00% : 165 minutes : 290 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, SDVI, WDVIII,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.VIII, WRD, Karaswada, Bardez – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer