

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9721, 9722 /Lab/ 192 /2020-21
Sand –T: 5083 & 5084 . Cement-1214

Dated: 11/ 01 / 2020.

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

Sub: Desilting of nallah and construction of protection of wall from Kumbharwada to Sawanar at Mayem in Bicholim Taluka

Ref to requisition No: /F.182/WRD/WDVI/SDI/406/2020-21 Dated: 29/12/2020.

Qty. Received: 1 bags each **Date of Receipt:** 30/12/2020 **Tested on:** 01,02,04 & 05/01/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4558,4559, 4577, 4555& 4569 /SS **Lab. Sample No.:** 9948 To 9952 **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.9950)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 5.55% : - 2.26 : - III	Sand: (L.S.No.9951)	i) Silt & Clay by S.A. method : - 5.60% ii) Silt by sedimentation : - 6.25% iii) Fineness Modulus : - 2.05 iv) Grading Zone : - IV
To be used for – 1:2:4 concrete work. REMARK: The observed results are within the permissible limits of the coarse sand & Fine sand.					
4.	Cement: J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>51</u> , Month <u>12</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____.		i) Fineness of Cement : 1.08 % ii) Consistency of cement : 32.00% iii) Initial Setting Time : 140 minutes iv) Final Setting Time : 275 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 – -----. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

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