

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9699, 9700 /Lab/ 167/ 2020-21

**Dated:** 16/ 12 / 2020.

**Laboratory:** Bicholim

**Sand –T: 5068,5069, Cement: 1202.**

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

**Sub:** Improvement to nallah and construction of protection wall to both sides of nallah from Shri. Gurudas Gad field to Shri. Ravindra Naik field and Construction of footbridge at Mencurem in Bicholim Taluka.

**Ref to requisition No:** SDI/WDVI/WRD/F.W. 213/2020-21/362 Dated: 07/12/2020.

**Qty. Received:** 1 bags of **Date of Receipt:** 07/12/2020 **Tested on:** 07 & 08/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4370,4371,4375,4385 & 4361 /SS **Lab. Sample No.:** 9710 To 9714 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt, & 1 bags 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><u>20 mm Size Aggregate:</u></b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )		
2.	<b><u>12.5 mm Size Aggregate:</u></b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )		
<b><u>REMARK:</u> 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.</b>						
3.	<b><u>Course Sand:</u></b> (L.S.No.9712)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.31% : - 2.56 : - II	4.	<b><u>Fine Sand:</u></b> (L.S.No.9713) i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.60% : - 5.55% : - 2.07 : - IV
5.	<b><u>Cement:</u></b> J K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>47</u> , Month <u>11</u> , Year'2020. CM/L = <u>0003401033</u> Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.17 % : 31.00% : 130 minutes : 245 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><u>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</u></b>						

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**