

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9685, 9686 /Lab/ **153** /2020-21  
**Sand –T: 5058,5059, Cement: 1197.**

**Dated:** 07/ 12 / 2020. **Laboratory:** Bicholim  
**Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:** Construction of Open type Bandhara across nallha at Vagharachband Surla in Bicholim Taluka.

**Ref to requisition No:** SDI/WDVI/WRD/F.W. 228/2020-21/336 Dated: 19/11/2020.

**Qty. Received:** 1 bags of **Date of Receipt:** 30/11/2020 **Tested on:** 01,02,04 & 05/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4311,4312,4330,4326 & 4309 /SS **Lab. Sample No.:** 9649 To 9653 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt, & 1 bags cement.

**R E P O R T 01 OF 02**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
<b>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.</b>					
3.	<b>Course Sand:</b> (L.S.No.9651)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.55% : - 2.37 : - II	4. <b>Fine Sand:</b> (L.S.No.9652)	i) Silt & Clay by S.A. method : - 5.00% ii) Silt by sedimentation : - 5.68% iii) Fineness Modulus : - 2.06 iv) Grading Zone : - IV
5.	<b>Cement:</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 : 1.26 % ii) Consistency of cement : 31.50% iii) Initial Setting Time : 160 minutes iv) Final Setting Time : 305 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>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</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**