

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9803, 9804 /Lab/318/2020-21 **Dated:** 26/ 03/2021. **Laboratory:** Bicholim  
**Sand –T: 5128. Cement-1238** **Sub Div: V (QC)/WRD/Bicholim Goa.**

**Sub:** Construction of Branches 1, 2 & 3 and field channels of Bastora Minor I-offtaking at Ch.33.610 km of LBMC of TIP at Bastora village Bardez Taluka.

**Ref to requisition No.:** SDIII/WDVIII/WRD /W.F.52/20-21/317 **Dated:** 12/03/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 18/03/2021 **Tested on:** 19&20/03/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. No.** 5545, 5546, 5547 & 5489/SS **Lab. Sample No.:** 922 To 925 **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.	<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:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <b>1:1</b> by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Sand:</b> (L.S.No.924)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.81% : - 2.184 : - III		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> JK .Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>11</u> , Month <u>03</u> , Year' <u>2021</u> . CM/L = <u>0003401033</u> Qty. rep. –.		i) Fineness of Cement : 1.03% ii) Consistency of cement : 32.00% iii) Initial Setting Time : 175 minutes iv) Final Setting Time : 300 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 –1:3:6&1:2:4 Mix Concrete <b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDIII, WDVIII, WRD, Karaswada-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.VIII, WRD, Karaswada-Bardez – Goa  
4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**