

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9558, 9559 /Lab/ 445/2019-20  
**Sand –T: 4986, Cement: 1143.**

**Dated:** 20 / 02/ 2020. **Laboratory:** Bicholim  
**Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:** Improvement to Porio Bund in Ward No. 3 at Pomburpa in Aldona Constituency.

**Ref to requisition No:** SDII/WDI/WRD/F. 24/2019-20/605 **Dated:** 07/02/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 11/02/2020 **Tested on:** 13,14 & 15/02/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 3229,3230,3237 & 3226 /SS **Lab. Sample No.:** 7920 To 7923 **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>1:2</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Coarse sand:</b> (L.S.No.7922)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.20% : - 4.76% : - 2.50 : - II		
<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>04</u> , Month <u>01</u> . Year' <u>2020</u> . CML/L = 0003401033 Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.04 % : 31.00% : 165 minutes : 285 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)	
<b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa – Goa.  
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.  
3. Copy Submitted to The Executive Engineer, W.D. I, WRD, Porvorim – Goa.  
4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**