

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9731, 9732 /Lab/ 220 /2020-21  
**Sand –T: 5106 . Cement: T:1217**

**Dated:** 01/ 02 / 2021.

**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:** WRD/WDI/SDII/F.24/20-21/407 Dated: 20/01/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 21/01/2021 **Tested on:** 23,25,31/01/2021& 01/02/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4776,4777, 4792, & 4778/SS **Lab. Sample No.:** 154 To 157 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt.

**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>Sand:</b> (L.S.No.156)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 4.54% : - 2.60 : - II		
<b>REMARK:</b> The observed results are within the permissible limits for coarse sand.					
4.	<b>Cement:</b> J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>03</u> , Month <u>01</u> , Year' <u>2021</u> . CM/L =0003401033 Qty. rep. – _____. To be used for –	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.08 % : 31.00% : 165 minutes : 315 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> <u>The observed results are within the permissible limit for Ordinary Portland cement.</u>					

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, WDI, WRD, Porvorim – Goa

4. Q.C. Lab file

5. Bill File.

**Junior Engineer**

**Assistant Engineer**