

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9492, 9493 /Lab/ 322 /2019-20

**Dated:** 05/ 12/ 2019.

**Laboratory:** Bicholim

**Sand –T: 4948 , Cement: 1117**

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

**Sub:** Providing and Fixing Control valves to DWC outlet No. 14, 15, 16, 17 of RBMC of AIP in Sattari Taluka.

**Ref to requisition No:** F.174 /SDII/WDV/AIP/WRD/2019-20/171 Dated: 22/11/2019.

**Qty. Received:** 1 bags each **Date of Receipt:** 25/11/2019 **Tested on:** 30/11/2019 & 02/12/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

**Sample:** Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 2793, 2794, 2798 & 2792/SS **Lab. Sample No.:** 6956 TO 6959 **Tested by:** Mrs. S. B. Naik Shirodkar. JE  
Sand and 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>Sand:</b> (L.S.No.6958)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.20% : - 4.34 % : - 3.02 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> J.K. cement, bearing IS: Ordinary Portland cement, Manuf. date: Week <u>46</u> , Month <u>-11</u> , Year' <u>2019</u> . CM/L =_ 0003401033 Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.917 % : 31.00% : 145 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)
To be used –for PCC1:3:6, 1:2:4 & RCC1:2:4 <b>REMARK:</b> The observed results are within the permissible limit for <b>Ordinary Portland cement.</b>					

Copy to:

1. The Assistant Engineer, SDII, WDV, WRD, Karapur Tisk, Sankhali – Goa
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.V, WRD, Karapur Tisk, Sankhali – Goa.
4. Q.C. Lab file
5. Bill File.

**Junior Engineer**

**Assistant Engineer**