

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9588, 9589 /Lab/ 490 /2019-20

**Dated:** 16/ 03/ 2020.

**Laboratory:** Bicholim

**Sand –T: 5006 , Cement: 1154**

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

**Sub:** Widening to inspection path of RBMC of AIP for approach at Shirola aqueduct at Keri in Sattari Goa.

**Ref to requisition No:** F.37 /SDI/WDV/AIP/WRD/2019-20/173 Dated: 03/03/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 09/03/2020 **Tested on:** 11 & 12/03/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 3453, 3454, 3462 & 3439/SS **Lab. Sample No.:** 8364 TO 8367 **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.8366)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.40% : - 5.00 % : - 2.08 : - III		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> ACC cement, bearing IS: Ordinary Portland cement, Manuf. date: Week <u>09</u> , Month <u>-03</u> Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____.		i) Fineness of Cement : 1.13 % ii) Consistency of cement : 31.50% iii) Initial Setting Time : 165 minutes iv) Final Setting Time : 270 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 <b>Ordinary Portland cement</b> .					

Copy to:

1. The Assistant Engineer, SDI, WDV, Keri, Sattari – 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**