

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9424, 9425 /Lab/ 280 /2019-20

Dated: 07/ 10/ 2019.

Laboratory: Bicholim

Sand –T: 4911 , Cement: 1101

Sub Div: V (QC)/WRD/Bicholim

Sub: Construction of Slab culvert for Shri. Azmatullah Karol and other in Sy. No. 38/1 at ch. 1.075 km on RBMC of AIP at Keri, Sattari Goa.

Ref to requisition No: F.37 /SDI/WDV/AIP/WRD/2019-20/65 Dated: 04/10/2019.

Qty. Received: 1 bags each **Date of Receipt:** 04/10/2019 **Tested on:** 05 & 07/10/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 2713, 2714, 2715 & 2712/SS **Lab. Sample No.:** 6815 TO 6818 **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.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – -- m ³)	
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.6817)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.00% : - 3.48 % : - 2.502 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: ACC cement, bearing IS: Ordinary Portland cement, Manuf. date: Week --, Month --, Year'2019. CM/L = <u>invisible</u> . Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.12 % : 30.50% : 165 minutes : 280 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 PCC1:2:4 &RCC1:1.5:3 REMARK: <u>The observed results are within the permissible limit for Ordinary Portland cement.</u>					

- 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