

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9398, 9399 /Lab/ 193 /2019-20

Dated: 17/ 06/ 2019.

Laboratory: Bicholim

Sand –T: 4892 , **Cement:** 1090

Sub Div: V (QC)/WRD/Bicholim

Sub: Construction of Slab culvert at ch. 0.875 km on LBMC of AIP in survey no. 31/1 of Keri village in Sattari Taluka.

Ref to requisition No: F.66 /SDIII//WDV/AIP/WRD/2019-20/38 Dated: 10/06/2019.

Qty. Received: 1 bags each **Date of Receipt:** 12/06/2019 **Tested on:** 13,14 & 15/06/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Aggr. Size 20.00, 12.50 mm, **O.S. No. :** 2238,2239,2247 & 2230/SS **Lab. Sample No.:** 6079 TO 6082 **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. – 20.00 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. – 20.000 m ³)	
REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.6081)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 2.60% : - 3.75 % : - 2.74 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: JK Super cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>21</u> , Month <u>05</u> , Year' <u>2019</u> . CM/L = <u>0003401033</u> Qty. rep. – _____.		i) Fineness of Cement : 1.02 % ii) Consistency of cement : 31.00% iii) Initial Setting Time : 165 minutes iv) Final Setting Time : 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)	
REMARK: The observed results are within the permissible limit for Portland cement.					

Copy to:

1. The Assistant Engineer, SDIII, 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