

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9687, 9688 /Lab/ **158** /2020-21
Sand –T: 5060,5061, Cement: 1199.

Dated: 08/ 12 / 2020. **Laboratory:** Bicholim
Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Renovation to the Existing open irrigation channel from Siya temple to Konat Farm at Surla in Bicholim Taluka.

Ref to requisition No: SDI/WDVI/WRD/F.W. 227/2020-21/335 Dated: 19/11/2020.

Qty. Received: 1 bags of **Date of Receipt:** 30/11/2020 **Tested on:** 02,04,05 & 07/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4317,4318,4331,4329 & 4315 /SS **Lab. Sample No.:** 9644 To 9648 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt, & 1 bags 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.	Course Sand: (L.S.No.9646)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.43% : - 2.24 : - III	4. Fine Sand: (L.S.No.9647)	i) Silt & Clay by S.A. method : - 5.20% ii) Silt by sedimentation : - 5.68% iii) Fineness Modulus : - 2.06 iv) Grading Zone : - IV
5.	Cement: J K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>47</u> , Month <u>11</u> , Year'2020. CM/L = <u>0003401033</u> Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.09 % : 30.00% : 165 minutes : 295 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 – ----- REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDI, WDVI,WRD, Bicholim – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa.
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer