

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9500, 9501 /Lab/ 340 /2019-20

Dated: 17/ 12/ 2019.

Laboratory: Bicholim

Sand –T: 4952,Cement T: 1120

Sub Diy: V (QC)/WRD/Bicholim

Sub: Construction of Anjuna Distributory taking off at ch. 28.97 km of the Left bank main canal of Tillari Irrigation Project in Siolim & Anjuna Village of Bardez Taluka. Part II :Construction of Rising main and reinstatement of allied structures for Anjuna Distributory from ch.0.00km to ch. 4.50kms in Cucholim and Siolim Village of Bardez Taluka.

Ref to requisition No: SDIII/WDVIII/WRD/WF. 32(PART- II)/2019-20/198 Dated: 04/12/2019.

Qty. Received: 1 bags each **Date of Receipt:** 11/12/2019 **Tested on:** 16/12/2019 & 17/12/2019 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No. :** 2863,2865 ,2866 & 2869 /SS **Lab. Sample No.:** 7203 TO 7206 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.50mm size aggrt & 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. – 40.00 m ³)	
2.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – 40.00 m ³)	
REMARK: After blending 20 mm aggregate with 12.50 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.7205)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.40% : - 4.34% : - 2.48 : - II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week 46, Month 11, Year' 2019. CM/L = 0003401033 Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.07 % : 31.00% : 145minutes : 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)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDIII, WDVIII, WRD, Karaswada Bardez – Goa
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, , Karaswada Bardez – Goa .
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer