

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9651, 9652 /Lab/ 120 /2020-21

Dated: 19/ 10/ 2020.

Laboratory: Bicholim

Sand –T: 5038,Cement T: 1180

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.0.00 km to ch. 4.50kms in Cucholim and Siolim Village of Bardez Taluka.

Ref to requisition No: SDIII/WDVIII/WRD/WF. 32(PART- II)/2020-21/140 Dated: 09/10/2020.

Qty. Received: 1 bags each **Date of Receipt:** 13/10/2020 **Tested on:** 14/10/2020 & 15/10/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No. :** 4148,4149 ,4154 & 4151 /SS **Lab. Sample No.:** 9419 TO 9422 **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. – 90.00 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. – 90.00 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.9421)	i) Silt & Clay by S.A. method : - ii) Silt by sedimentation : - iii) Fineness Modulus : - iv) Grading Zone : -	4.60% 5.43% 2.25 III		
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 40, Month 10, Year 2020. CM/L = 0003401033	i) Fineness of Cement : ii) Consistency of cement : iii) Initial Setting Time : iv) Final Setting Time :	1.24 % 30.50% 180 minutes 310 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)	
Qty. rep. – ----- . To be used for – 1:1.5:3 grade concrete for thrust block & 1:2:4 grade concrete for road CD works.					
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