

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9905,9906/Lab/207/2021-22 **Dated:** 16/ 11/2021.  
**Sand –T:5192, Cement-1290**

**Laboratory:** Bicholim  
**Sub Div:** V(QC)/WRD/Bicholim Goa.

**Sub:** Construction of Anjuna Distributory taking off at ch.28.970km 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 of Anjuna Distributory from ch.0.0kms to ch.4.50kms in Cucholim and Siolim village of Bardez Taluka.

**Ref to requisition No.:** -SD III/WDVIII/WRD/WF.32(PART-II)2021-22/203 **Dated:** 01/11/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 03/11/2021 **Tested on:** 06 & 07 /11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. No.** 7067, 7098, 7071, 7063/SS **Lab. Sample No.:** 2329 To 2332 **Tested by:** Mrs. Shirodkar. JE.  
12.5mm size aggrt., Cement

**R E P O R T 01 O F 01**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m <sup>3</sup> )	
<b>REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Sand:</b> (L.S.No.2331)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.71% : - 2.29% : - II		
<b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	<b>Cement:</b> Jyoti Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- M- 10 year-2021 CM/L = 6894808 Qty. rep. – ____ --.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.00% : 32.50% : 170 minutes : 290 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)	
<b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

- Copy to: 1. The Assistant Engineer, SDIII,WDVIII,WRD,Karaswada – Bardez – Goa.  
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim – Goa.  
3. Copy Submitted to The Executive Engineer,WDVIII,WRD,Karaswada - Bardez– Goa  
4. Q.C. Lab file 5. Bill

**Junior Engineer**

**Assistant Engineer**