

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9807,9808 /Lab/319/2020-21 **Dated:** 30/ 03/2021.

**Laboratory:** Bicholim

**Sand –T: 5131. Cement-1240**

**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)/20-21/326 **Dated:** 24/03/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 24/03/2021 **Tested on:** 25,26 & 27/03/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. No.:** 5629, 5630, 5651 & 5606 /SS **Lab. Sample No.:** 1003 To 1006 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.

12.5mm 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.	<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:</b> 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.	<b>Sand:</b> (L.S.No.1005)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 5.55% : - 2.58 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Dalmia.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week, - Month 03, Year' 2021 CM/L = 6200022577 Qty. rep. –.		i) Fineness of Cement : 0.98% ii) Consistency of cement : 31.50% iii) Initial Setting Time : 165 minutes iv) Final Setting Time : 290 minutes	: 0.98% ----- (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 – ----- <b>REMARK:</b> 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**