

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9903,9904 /Lab/206/2021-22 Dated: 16/ 11/2021. **Laboratory:** Bicholim  
**Sand –T: 5191. Cement-1289** **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-III:** Construction of Rising Main from Ch.4.50 Kms to Ch.7.290 Kms, Break Pressure tank (BPT), Gravity main from Ch.0.00 Kms to Ch.1.00 Kms and reinstatement of allied structures of Anjuna Distributory in Siolim and Assagao Village of Bardez Taluka..

**Ref to requisition No.:** -SD III/WDVIII/WRD/WE.32(PART-III)2021-22/204 Dated: 01/11/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 03/11/2021 **Tested on:** 08 & 09 /11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. No.** 97,98, 101,99/R.K. **Lab. Sample No.:** 2333 To 2336 **Tested by:** Mrs. R.R. Kadam. A.E.  
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:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <b>1:1</b> by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Sand:</b> (L.S.No.2335)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.68% : - 2.32% : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Jyoti Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:W - M-10-Year <u>2021</u> . CM/L = <u>6894808</u> Qty. rep. – ____--.		i) Fineness of Cement : 1.08% ii) Consistency of cement : 33.00% iii) Initial Setting Time : 160 minutes iv) Final Setting Time : 275 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:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

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

**Assistant Engineer**