

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9827, 9828 /Lab/28/2021-22 **Dated:** 24/ 04/2021. **Laboratory:** Bicholim

**Sand –T: 5145. Cement-1252**

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

**Sub:** Desilting of Rivulets/Poi, Agriculture fields and reconstruction of existing sluice in Savat Khazan and Kharat Khazan fields at Shirgao in Bicholim Taluka.

**Sub Est.III:-**Reconstruction of sluice (NaviManas) in Kharat Khazan at Shirigao village in Bicholim Taluka.

**Ref to requisition No.:-**F.36/SDIII/WDVI/WRD/2021-22/08 **Dated:** 12/04/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 15/04/2021 **Tested on:** 20,22 & 23/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. No.**5929,5930,5948& 5932/SS **Lab. Sample No.:** 1212 To 1215 **Tested by:** Mrs. 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 <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.1214)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.20% : - 5.00% : - 2.50 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Ultratech.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:Week12, Month 03, Year'2021 CM/L =7171769 Qty. rep. ---.	i)Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.09% : 32.50% : 170 minutes : 320 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)	
To be used for –PCC& RCC work. <b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDIII, WDVI,WRD,Mulgao – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D.VI, WRD,Bicholim – Goa

4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**