

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9837, 9838 /Lab/42 /2021-22 **Dated:** 29/ 04/2021.

**Laboratory:** Bicholim

**Sand –T: 5150. Cement-1257**

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

**Sub:** Construction of Irrigation Well in the field bearing Survey No.68/0 at Podocem V.P.Paryem in Sattari Taluka.

**Ref to requisition No:-** SDIV/WDVI/WRD /F.50/21-21/11 **Dated:** 20/04/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 20/04/2021 **Tested on:** 27&28/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. No.** 5993, 5994, 6001 & 6002/SS **Lab. Sample No.:** 1299 To 1302 **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.1301)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.95% : - 2.468 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> JK.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:Week 14, Month 04, Year'2021. CM/L =0003401033 Qty. rep. – To be used for –	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.13% : 31.00% : 175 minutes : 305 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, SDIV, WDVI, WRD, Bicholim – 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**