

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9943,9944/Lab/246/2021-22    **Dated:** 05 / 01 /2022.

**Laboratory:** Bicholim

**Sand –T:5219    Cement-T: 1309**

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

**Sub:-** “Rejuvenation of St. Inez nallah- Improvement of Hydrodynamics, water quality and stabilization of banks, under Smart City Mission”.

**Ref to requisition No:-** WRD/MI/WDI/SDIV/F.26/21-22/610    **Dated:** 20/12/2021.

**Qty. Received:** 1 bags each    **Date of Receipt:** 23/12/2021    **Tested on:** 23,24 & 25/12/2021    **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. N:-** 7225,7226,7235 & 7227/SS    **Lab. Sample No.:** 2520 To 2523    **Tested by:** Mrs. S.B. Naik Shirodkar.JE.  
12.5mm size aggrt., Sand, 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: 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>Coarse Sand:</b> (L.S.No.2522)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.88% : - 2.48 : -		
To be used for----. <b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	<b>Cement:</b> J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 48, M-11, Year-2021 CM/L =0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.08% : 32.00% : 165 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)	
To be used for –. <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

Copy to: 1. The Assistant Engineer, SDIV, WDI,WRD,Porvorim – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. I, WRD, Porvorim – Goa

4. Q.C. Lab file    5. Bill File.

**Junior Engineer**

**Assistant Engineer**