

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9893, 9894 /Lab/ 189 /2021-22   **Dated:** 22/10/2021.   **Laboratory:** Bicholim  
**Sand –T:** 5184. Cement-1284, Laterite T:446   **Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:-** Improvement to the existing CADA building at T.I.P complex Karaswada Bardez-Goa.

**Ref to requisition No.:** SDIII/WDVIII/WRD/WF.68/2021-22/167   **Dated:** 27/09/2021.

**Qty. Received:** 1 bags each   **Date of Receipt:** 07/10/2021   **Tested on:** 12,13 & 14/10/2021   **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. N.:** -7011,7012,7016,7013,7017/SS   **Lab. Sample No.:** 2266 To 2270   **Tested by:** Mrs. Shirodkar.JE.  
 12.5mm size aggrt., Cement, Laterite stone

**R E P O R T 01 OF 02**

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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Sand:</b> (L.S.No.2268)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.71% : - 2.96 : - II		
To be used for----. <b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	<b>Cement:</b> JK.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 40 M-10, Year' 2021 CM/L =0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.25% : 31.00% : 190 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 –1:1.5:3 mix concrete. <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

Junior Engineer

Assistant Engineer

