

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

**Test Report No.:** WRD/QC/F.6-4/Aggr-T:- 175,176/Lab/156/2022-23 **Dated:** 29/ 08/2022.

**Laboratory:** Bicholim-Goa.

**Sand –T:-5297. Cement-T:-1371.**

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

**Sub:** Improvement to the existing collapsible gates of WRD office units including land development near underground water sump at TIP Complex Karaswada Bardez Goa.

**Ref to requisition No:-** S.DIII/W.D.VIII/W.R.D./W.F.97/2022-23/117

**Dated:** 18/08/2022.

**Qty. Received:** 1 bags each **Date of Receipt:** 23/08/2022 **Tested on:-** 23,24 & 25 /08/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. No.** 9281,9282,8284 & 8283/SS **Lab. Sample No.:** 5183 to 5186 **Tested by:** Mrs. S.B. Naik 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	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: 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>Sand:</b> (L.S.No.5185)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.12% : - 2.52% : - II		
		<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- 34, M- 08, Year-2022 CM/L =0003401033 Qty. rep. – ____--.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.31% : 31.00% : 170 minutes : 310 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 1:2:4 Mix concrete.	<b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>			

Copy to: 1. The Assistant Engineer, SDIII,WDVIII,WRD, Karaswada– Bardez– Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sanchai 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.

**Junior Engineer**

**Assistant Engineer**