

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9610, 9611 /Lab/ 21 /2020-21

**Dated:** 21/ 05 / 2020.

**Laboratory:** Bicholim

**Sand –T: 5018 , Cement: 1163.**

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

**Sub:** Improvement to nallah and Construction of protection wall at Sy.No. 412/1 Petechewada – Korgao in Pernem Taluka.

**Ref to requisition No:** SDIII/WDI/WRD/F.58/2020-21/13 Dated: 11/05/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 14/05/2020 **Tested on:** 16, 18 & 19/05/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 3597,3598,3609 & 3610/SS **Lab. Sample No.:** 8656 To 8659 **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	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>1:2</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Sand:</b> (L.S.No.8658)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.20% : - 4.87% : - 2.56 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> J.K. cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week 19, Month -05 Year'2020. CM/L = 0003401033 Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.02 % ----- (It should not be more than 10%) : 31.50% (It should be in the neighborhood of 35%) : 150 minutes ---- (It should not be less than 30 minutes) : 285 minutes -- (It should not be more than 600 minutes)	
		To be used for – NOT SPECIFIED	<b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.		

Copy to: 1. The Assistant Engineer, SDIII, WDI,WRD, Pernem – 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**