

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9600, 9601 /Lab/ 15 /2020-21

**Dated:** 12/ 05 / 2020.

**Laboratory:** Bicholim

**Sand –T: 5012 , Cement: 1158.**

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

**Sub:** Maintenance and repair to the existing Bandhara near L.I. scheme at Maulinguem in Bicholim Taluka. Reg. Construction of side protection wall on D/S of Bandhara at Maulinguem.

**Ref to requisition No:** SDI/WDVI/WRD/F.W. 223/2020-21/16 Dated: 05/05/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 06/05/2020 **Tested on:** 08, 09 & 11/05/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 3571,3572,3575 & 3576/SS **Lab. Sample No.:** 8615 To 8618 **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.8617)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.00% : - 4.34% : - 2.25 : - III		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Ultratech cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week --, Month --, Year'2020. CM/L = 7171789 Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.24 % ----- (It should not be more than 10%) : 32.00% (It should be in the neighborhood of 35%) : 115 minutes ---- (It should not be less than 30 minutes) : 230 minutes -- (It should not be more than 600 minutes)	
To be used for – PCC&Laterite masonry in CM 1:4 <b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDI, 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**