

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9472 , 9473 /Lab/ 314 /2019-20  
Sand –T: 4937 , Cement: 1111.

**Dated:** 30/ 11 / 2019.

**Laboratory:** Bicholim

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

**Sub:** Construction of protection wall from Sakaram Godker house to the existing lake at Village Konadi at V.P. Korgao in Pernem Taluka.

**Ref to requisition No:** MI/SDIII/WDI/WRD/F. -/2019-20/248 Dated: 14/11/2019.

**Qty. Received:** 1 bags each **Date of Receipt:** 22/11/2019 **Tested on:** 28 & 29/11/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

**Sample:** Sand ,20mm, **O.S. No.** 2788 to 2791 /SS **Lab. Sample No.:** 6943 To 6946 **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 <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Sand:</b> (L.S.No.6945 )	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 2.80% : - 3.48% : - 2.12 : - 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 <u>46</u> , Month <u>11</u> , Year' <u>2019</u> . CM/L = <u>invisible</u> Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.93 % : 31.50% : 155 minutes : 300 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)	
<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**