

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9504, 9505 /Lab/ 346 /2019-20

**Dated:** 23 / 12/ 2019.

**Laboratory:** Bicholim

**Sand –T: 4954, Cement: 1122.**

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

**Sub:** Improvement to existing nallah bank along road side from twenty three Restaurant up to pond near Starlight Restaurant at Village Arpora in Calangute Constituency.

**Ref to requisition No:** SDII/WDI/WRD/F. 24/2019-20/484 Dated: 16/12/2019.

**Qty. Received:** 1 bags each **Date of Receipt:** 17/12/2019 **Tested on:** 21 & 23/12/2019 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1988

**Sample:** Sand ,20mm, **O.S. No.** 2888 To 2891/SS **Lab. Sample No.:** 7257 To 7260 **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.7259)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.80% : - 4.65% : - 2.60 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Ramco cement, bearing IS:-- Ordinary Portland cement, Manuf. date: Week 48, Month Nov. Year'2019. CM/L = 0006028358 Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.03 % : 31.00% : 160 minutes : 290 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, SDII, WDI,WRD, Mapusa – 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**