

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

**Test Report No.:** WRD/Q.C./F.6-4/ Cement: 1192, Sand –T: 5052, /Lab/ 148 /2020-21  
Aggr -T- 9677, 9678.

**Dated:** 04/ 12 / 2020. **Laboratory:** Bicholim  
**Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:** Improvement of canal lining in between ch. 750 m to 900 m of Sal Distributory in Sal village in Bicholim Taluka.

**Ref to requisition No:** SDIV/WDVIII/WRD/F. 410/2020-21/103 Dated: 19/11/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 23/11/2020 **Tested on:** 23 & 24/11/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4259,4265,4257 & 4258 /SS **Lab. Sample No.:** 9566 To 9569 **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>Cement:</b> Ultratech cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week -- Month --, Year'2020. CM/L = 7171769 Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.20 % ----- (It should not be more than 10%) : 32.50% (It should be in the neighborhood of 35%) : 175 minutes ---- (It should not be less than 30 minutes) : 300 minutes -- (It should not be more than 600 minutes)	
To be used for – PCC1:2:4 for lining of canal. <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					
2.	<b>Sand:</b> (L.S.No.9567)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.81% : - 2.20 : - III		
<b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
3.	<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> )		
4.	<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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b>					

- Copy to: 1. The Assistant Engineer, SDIV, WDVIII,WRD, Dodamarg – Goa.  
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.  
3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, Karaswada,Bardez – Goa.  
4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**