

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

Test Report No.: WRD/Q.C./F.6-4/ Cement: 1174, Sand –T: 5032 , /Lab/ 114 /2020-21
Aggr -T- 9639, 9640.

Dated: 05/ 10 / 2020. **Laboratory:** Bicholim
Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Improvement of canal bed and canal lining in between ch. 1360 m to 1440 m of Vadaval Distributory at Latambarcem village in Bicholim Taluka.

Ref to requisition No: SDVI/WDVIII/WRD/F. 410/2020-21/60 Dated: 29/09/2020.

Qty. Received: 1 bags each **Date of Receipt:** 29/09/2020 **Tested on:** 03 & 05/10/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4126,4128,4124 & 41251 /SS **Lab. Sample No.:** 9392 To 9395 **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.	Cement: Ultratech cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>35</u> Month <u>Sep</u> , Year' <u>2020</u> . CM/L = <u>7171769</u> Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.31 % ----- (It should not be more than 10%) : 30.50% (It should be in the neighborhood of 35%) : 135 minutes ---- (It should not be less than 30 minutes) : 285 minutes -- (It should not be more than 600 minutes)	
To be used for – PCC1:2:4 for lining & foundation. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					
2.	Sand: (L.S.No.9393)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.80% : - 4.54% : - 2.64 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
3.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size. (Qty. rep. – --- m ³)		
4.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. – --- m ³)		
REMARK: 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.					

Copy to: 1. The Assistant Engineer, SDVI, WDVIII,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.VIII, WRD, Karaswada,Bardez – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer