

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

Test Report No.: WRD/Q.C./F.6-4/ Cement: 1208, Sand –T: 5076, /Lab/ 184 /2020-21
Aggr -T- 9711, 9712.

Dated: 04/ 01 / 2021. **Laboratory:** Bicholim
Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Construction of RCC Bund at ch. 13.400 km of LBMC of TIP near intake point of water Treatment Plant at Assonora in Bardez- Taluka.

Ref to requisition No: SDIV/WDVIII/WRD/F. 410/2020-21/119 Dated: 16/12/2020.

Qty. Received: 1 bags each **Date of Receipt:** 23/12/2020 **Tested on:** 26,27 & 28/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4509,4496,4497 & 4498 /SS **Lab. Sample No.:** 9811 To 9814 **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: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>50</u> Month <u>12</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> 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%) : 30.00% (It should be in the neighborhood of 35%) : 165 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 of canal. REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					
2.	Sand: (L.S.No.9812)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 4.65% : - 2.55 : - 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, 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