

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9598, 9599 /Lab/ 13 /2020-21

Dated: 04/ 05/2020.

Laboratory: Bicholim

Sand –T: 5011 & Cement T: 1157 .

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

Sub: Improvement to Minor 1 of B3 Distributory of RBMC of TIP by Providing RCC lining from ch. 0.850 km to 1.425 km at Ozari in V.P. Ozari in Pernem Taluka from ch. 0.775 kms to 1.425 kms at Ozari in Pernem Taluka.

Ref to requisition No: SDIII/WDVII/WRD/F. 197/2020-21/13 Dated: 28/04/2020.

Qty. Received: 1 bags each **Date of Receipt:** 29/04/2020 **Tested on:** 30/04/2020 & 02/05/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand,20mm, **O.S. No.** 3563 To 3566 /SS **Lab. Sample No.:** 8581 To 8584 **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.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – 45.00 m ³)	
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – 45.00 m ³)	
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.					
3.	M. Sand: (L.S.No.8583)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 10.80% : - 12.50% : - 2.90 : - I	(Limit of Deleterious material is 15.00% for crushed sand)	
4.	Cement: Bharati cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week --, Month 02, Year'2020. CM/L = 4578077 Qty. rep. – _____ To be used for – PCC 1:1.5:3 for Lining.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.19 % : 33.00% : 85 minutes : 230 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)
REMARK: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).					
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDIV, WDVII, WRD, Dhargal, 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.VII, WRD, Dhargal, Pernem – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer