## **GOVERNMENT OF GOA QUALITY CONTROL LABORATORY** WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T-9436, 9437 /Lab/ 283 /2019-20

Dated: 15/10/2019.Laboratory: Bicholim

Sand -T: 4917, 4918, Cement: 1103. Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Construction of pump house, Rising main and allied structures for pumping water from ch. 7.190 km to ch. 8.002 km and Gravity main from ch. 8.002 km to 8.780 km of B6 Distributory of RBMC of TIP at Ugvem in Pernem Taluka.

Ref to requisition No: SDII/WDVII/WRD/F. 18/2019-20/83 Dated: 04/10/2019.

**Date of Receipt**: 10/10/2019 **Tested on**: 10 &14/10/2019 **Ref to Specification:** CPWD 2002, Vol. I&IS:4031-4-1988 **Qty. Received:** 1 bags each

**O.S. No.** 1131 To 1135 /AF Sample: Sand, 20mm, **Lab. Sample No.**: 6822 To 6826 Tested by: Mr. Anil R. Fadte, JE.

12.50mm size aggrt, cement.

## REPORT 01 OF 01

Sr. No.	Description of sample	Tested for		esults	Max. /Min. value perm	 nissible	Remarks
_	<ol> <li>20 mm Size Aggregate: Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. rep. – 40 m³)</li> <li>12.5 mm Size Aggregate: Particle size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. – 40 m³)</li> </ol>						
<u>REMARK:</u> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.							
	ii) S iii) I	Silt & Clay by S.A. method Silt by sedimentation Fineness Modulus Grading Zone	: - 3.80% : - 5.68% : - 2.79 : - II		i) Silt & Clay by S S.No.6825) ii) Silt by sedimentiii) Fineness Modu iv) Grading Zone	tation : - lus : -	4.20% 5.56% 2.47 III

## **REMARK:** The observed results are within the permissible limits of the coarse sand.

5. **Cement:**  i) Fineness of Cement

: 1.32% ---- (It should not be more than 10%)

J.K cement, bearing IS:269

ii) Consistency of cement : 30.50% (It should be in the neighborhood of 35%)

Ordinary Portland cement,

iii) Initial Setting Time

: 140 minutes ---- (It should not be less than 30 minutes)

Manuf. date: Week 39, Month 09, Year'2019.

iv) Final Setting Time

: 270 minutes -- (It should not be more than 600 minutes)

CM/L = 0003401033

Qty. rep. –.

To be used for – PCC and RCC.

REMARK: The observed results are within the permissible limit for Ordinary Portland cement.

Copy to: 1. The Assistant Engineer, SDII, 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.