## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9653 TO 9656 /Lab/ 123 /2020-21

Sand -T: 5039 & 5040, Cement:T: 1181

Dated: 24/10/2020. <u>Laboratory</u>: Bicholim Sub Div: V (QC)/WRD/Bicholim Goa.

<u>Sub</u>: Improvement to the RBMC of TIP by Providing 100 mm thick RCC lining from ch 0.00 kms to 6.020 km excluding Hassapur aquaduct and Kalna aquaduct between Ch 4.165 km to 4.227 and 4.772 to 5.117 km at village Ankane-Hassapur and Hali in Pernem Taluka.

**Ref to requisition No:** SDI/WDVII/WRD/F. 353/2020-21/143 Dated: 12/10/2020.

**Qty. Received:** 2 bags each **Date of Receipt**: 15/10/2020 **Tested on**: 15,16,17 & 19/10/2020 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. No. 4152,4153,4156,4157,4158,4160 & 4155/ SS Lab. Sample No.: 9422 TO 9430 Tested by: Mrs. S.B. Naik Shirodkar, JE.

12.5mm size aggrt, & 1 beg cement

## REPORT 01 OF 02

Sr. No	. Description of sample	<b>Tested for</b>	Result	s Ma	x. /Min. value permissible	Remarks		
1. 2.	20 mm Size Aggregate: 12.5 mm Size Aggregate (L.S.No.9424 & 9426)		It is not single	sized aggregate of 12.	n nominal size. (Qty. rep. – 5 mm nominal size. (Qty. rep. – mm aggregates at the ratio of 1:2	$m^3$ )		
	satisfying the required criteria for graded aggregate of 20 mm nominal size.							
3. 4.	20 mm Size Aggregate: 12.5 mm Size Aggregate:  (L.S.No.9425 & 9427)  Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. rep m³)  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.							
5.	(L.S.No.9428) ii)	Silt & Clay by S.A. method: Silt by sedimentation: Fineness Modulus:		Coarse Sand: (L.S.No.9429)	<ul><li>i) Silt &amp; Clay by S.A. method</li><li>ii) Silt by sedimentation</li><li>iii) Fineness Modulus</li></ul>			

**Junior Engineer** 

**Assistant Engineer** 

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<u>Sample:</u> Sand, 20mm, <u>O.S. No.</u> 4152, 4153, 4156, 4157, 4158, 4160 & 4155/ SS <u>Lab. Sample No.</u>: 9422 TO 9430 <u>Tested by</u>: Mrs. S.B. Naik Shirodkar, JE.

12.5mm size aggrt, & cement

## REPORT 02 OF 02

Sr. No.	Description of sample	<b>Tested for</b>	Results	Max./Min. value permissible	Remarks
7.	Cement:		i) Fineness of Cement	: 0.88 % (It should	not be more than 10%)
	Ultratech cement, bearing IS:269		ii) Consistency of cement	: 31.50% (It should be in the neighborhood of 35%)	
	Ordinary Portland cement,		iii) Initial Setting Time	: 150 minutes (It should not be less than 30 minutes)	
	Manuf. date: Week 35 N	Month Sep, Year'2020.	iv) Final Setting Time	: 295 minutes (It should not b	e more than 600 minutes)
	CM/L = 7171769		,	· ·	,
	Qty. rep. –				

To be used for – PCC 1:3:6 & RCC 1:1.5:3 **REMARK: The observed results are within the permissible limit for Ordinary Portland cement.** 

Copy to: 1. The Assistant Engineer, SDI, 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**