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

Test Report No.: WRD/O.C./F.6-4/Aggr-T- 207,208/Lab/196/2022-23

Dated:-22/11/2022. **Laboratory:** Bicholim

Sand -T:- 5317. Cement-T:- 1387.

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

<u>Sub:-</u> Rejuvenation of St. Inez nallah-Improvement to Hydrodynamic, Water Quality and Stabilization of banks a Project under Smart City Mission.

**Ref to requisition No:-** SDIV/WDI/WRD/F.38/22-23/517

Dated :- 08/11/2022

**Qty. Received:** 1 bags each **Date of Receipt:**- 13/11/2022

**Tested on:**- 16,17,18 & 19/11/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. NO:-** 9481,9482,9485 & 9478/SS

**Lab. Sample No.:** 5386 to 5389 **Tested by:** Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, Sand, and Cement

REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	s	Max. /Min. value pern	nissible	Remarks	
1.	20.00 mm Size Aggregate:	Particle size distribution:	It is single s	ized agg	egate of 20 mm nominal size.	(Qty. rep. –	m <sup>3</sup> )	
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not sing	le sized	ggregate of 12.5 mm nominal size	e. (Qty. rep	$ m^3$ )	
	<u>REMARK</u> : After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:1</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.							
3.	Crushed Sand:	Crushed Sand: i) Silt & Clay by S.A. method		: - 13.	00% (Limit of Deleterious ma	terial is 15.0	0% for crushed sand)	
	(L.S.No.5388)	ii) Silt by sediment	tation	: - 14.				
		iii) Fineness Modu	lus	: - 2.43	%			
		iv) Grading Zone		: - II				
	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).							
4.	<b>Cement:</b>	i) Fineness	of Cement	:- 1.36	% (It should not b	e more than	10%)	
	JK Cement, bearing IS:269	ii) Consister	ii) Consistency of cement :- 31.50% (It should be in the neighborhood of 35%)					
	Ordinary Portland cement,	ement, iii) Initial Setting Ti			minutes (It should not be	less than 30 r	ninutes)	

Manuf. date: W-43, M-10, Y-2022

iv) Final Setting Time

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

CM/L = 0003401033

Qty. rep. –.

To be used for **REMARK: The observed results are within the permissible limit for Ordinary Portland cement.** 

Copy to:1. The Assistant Engineer, SDIV, WDI, WRD, Porvorim–Goa.

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
- 3. Copy Submitted to The Executive Engineer, WDI, WRD, Porvorim Goa
- 4. Q.C. Lab file 5. Bill File.