GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/O.C./F.6-4/Aggr-T- 199,200/Lab/186/2022-23 Dated:-09/11/2022. **Laboratory:** Bicholim

Sand -T:- 5311. Cement-T:- 1383.

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

Sub:- Development and Repair of Bunds, Fish tanks and Water channel of Estuarine Fish farm at Ela-Old Goa in Tiswadi Taluka.

Ref to requisition No:- S.D.IV/WDI/WRD/F.38/22-23/493

Dated :- 31/10/2022

Qty. Received: 1 bags each **Date of Receipt:**- 02/11/2022

Tested on:- 03,04,07 & 08/11/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. NO: 9452, 9453, 9456 & 9455/SS

Lab. Sample No.:- 5362 to 5365

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	Max. /Min. value permissible	e Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution: It is s	ingle sized	d aggregate of 20 mm nominal size. (Qt	y. rep. –m ³)
2.	12.5 mm Size Aggregate:	Particle size distribution: It is a	It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep m ³)		
				gate with 12.5 mm aggregates at the ratio of a for graded aggregate of 20 mm nominal s	
3.	Crushed Sand:	satisfying the requi	ed criteri	a for graded aggregate of 20 mm nominal s	size.
3.	Crushed Sand:	i) Silt & Clay by S.A. me	red criteriant	a for graded aggregate of 20 mm nominal s	size.
3.	Crushed Sand: (L.S.No.5364)	satisfying the requi	red criteria thod :- :-	a for graded aggregate of 20 mm nominal s	size.

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

:- 1.10%

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

JK Cement, bearing IS:269

ii) Consistency of cement :- 32.50% (It should be in the neighborhood of 35%)

Ordinary Portland cement,

iii) Initial Setting Time :- 160 minutes ---- (It should not be less than 30 minutes)

Manuf. date: W-41, M-10, Y-2022

iv) Final Setting Time

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

CM/L = 0003401033

Oty. 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, WD I, WRD, Porvorim Goa
- 4. Q.C. Lab file 5. Bill File.