## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 325,326/Lab/61/2023-24 Dated:- 17/05/2023. <u>Laboratory</u>: Bicholim-Goa Sand –T:- 5392. Cement-T:- 1448. <u>Sub Div: V (QC)/WRD/Bicholim Goa.</u>

<u>Sub</u>:- Construction of protection wall near house of Sadanand Rane to Gauresh Nagvekar at Chivar Butti in V.P. Anjuna in Siolim Constituency.

**Ref to requisition No:-** WRD/MI/WDI/SDI/F.57/2023-24/22. Dated :- 20/04/2023

**Qty. Received:** 1 bags each **Date of Receipt:** - 12/05/2023 **Tested on:** - 15 & 16/05/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. NO:-** 1207, 1206, 1208, 1209/RK. **Lab. Sample No**:- 7090 to 7093 **Tested by:-** Mrs. R.R. Kadam A.E.

12.5mm size Aggr, and Cement

REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution	on: It is single sized aggre	gate of 20 mm nominal size. (Qty. re	ep. –m <sup>3</sup> )
2.	12.5 mm Size Aggregate:	Particle size distribution	on: It is not single sized ag	gregate of 12.5 mm nominal size. (Qty. r	$^{1}$ ep. $ 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.	<b>Crushed Sand:</b>	i) Silt & Cla	y by S.A. method :- 14.20%	(Limit of Deleterious material is 15.	.00% for crushed sand)
	(L.S.No.7092)	ii) Silt by sec	dimentation :- 13.46%	Ó	
		iii) Fineness	Modulus :- 2.47%		
		iv) Grading 2	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.	Cement:		<del>-</del>	:- 1.29% (It should not b	
	JK Super 43 Grade OPC Cement, bearing IS:269		ii) Consistency of cement	sistency of cement :- 31.50% (It should be in the neighborhood of 35%)	
	Ordinary Portland cement,		iii) Initial Setting Time	:- 155 minutes (It should not be	less than 30 minutes)
	Manuf. date: W-19, M-05, Y-2023		iv) Final Setting Time	:- 265 minutes (It should not be m	ore 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, SDI, 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.