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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 329,330/Lab/77/2023-24 Dated:-26/05/2023. Laboratory: Bicholim-Goa Sand -T:- 5394. Cement-T:- 1450. Sub Div: V (QC)/WRD/Bicholim Goa.

Sub:- Construction of Protection wall to the Kalti River Passing through Survey No. 196/10 & 196/8 at Gadowada Querim in V.P. Querim Sattari Taluka.

Ref to requisition No:- F.50/SDIV/WDVI/WRD/2022-23/19. Dated :- 19/05/2023

**Qty. Received:** 1 bags each **Date of Receipt:** 24/05/2023

Sample: Sand. 20mm. **O.S. NO:-** 1298,1299,1321,1300/RK.

12.5mm size Aggr, and Cement

**Tested on:**- 24 & 25/05/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Lab. Sample No**: - 7203 to 7206 **Tested by:**- Mrs. R.R. Kadam A.E.

REPORT 01 OF 01

. No.	<b>Description of sample</b>	<b>Tested for</b>	Result	S	Max. /Min. value pe	ermissible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution:	It is single si	ized aggregate	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 aggrega	ate of 12.5 mm nominal	size. (Qty. rep.	$ m^3$ )
				0 0	2.5 mm aggregates at t ed aggregate of 20 mm		by weight; it is
3.	Coarse Sand:	i) Silt & Clay by	S.A. method	:- 4.80 %			
	(L.S.No.7205)	ii) Silt by sedime	ntation	:- 4.25 %			
		iii) Fineness Moo	lulus	:- 2.75 %			
		iv) Grading Zone	;	:- II			
		<b>REMARK:</b> The o	bserved results	s are within the	e permissible limits of t	he Coarse sand	<b>l.</b>
4.	<b>Cement:</b> i) Finence		of Cement	:- 1.28 %	(It should no	ot be more than	n 10%)
	JK Cement, bearing IS:269 ii) Cor		ncy of cement	:- 31.00 %	(It should be in the nei	ghborhood of 3	35%)
	Ordinary Portland cement, iii) Initi		etting Time	:- 155 minut	es (It should not b	be less than 30	minutes)
	Manuf. date: W-M-Invisible, Y-2023 iv) Final		tting Time	:- 290 minute	es (It should not be	more than 600	minutes)
	CM/L = 0003401033	,	•		•		,
	Qty. rep. –.						

Copy to:1. The Assistant Engineer, SDIV, WDVI, WRD, Bicholim-Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

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

- 3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim-Goa.
- 4. Q.C. Lab file 5. Bill File.