## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9865,9863,9864 /Lab/ 91 /2021-22 Dated: 31/05/2021. Laboratory: Bicholim</u>

Sand –T: 5165 .Cement-1269 <u>Sub Div</u>: V (QC)/WRD/Bicholim Goa.

<u>Sub</u>: Improvement to waterway of Nallah by construction of protection wall in the field of Shri.Purushottam Khadilkar in Sy.No 12/1 at Brahmakarmali in V.P.Nagargao in Sattari Taluka.

**Ref to requisition No:** MIN/WDVI/WRD/SDII/F.62/21-22/79 Dated: 20/05/2021.

**Oty. Received:** 1 bags each **Date of Receipt:** 25/05/2021**Tested on:** 27,28 & 29/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

<u>Sample</u>: Sand, 20mm, 40mm, <u>O.S. No</u> 6308, 6309, 6310, 6327, 6302 / SS <u>Lab. Sample No</u>.: 1606 To 1610 <u>Tested by</u>: Mrs. Shirodkar. JE.

12.5mm size aggrt., Cement

REPORT 01 OF 02

Sr. No.	Description of sam	ple	<b>Tested for</b>	Results	Max. /Min. value permissible	Remark
1.	40 mm Size Ag	gregate:	Particle size distribution:	It is single sized	aggregate of 20 mm nominal size. (Qty. zed aggregate of 12.5 mm nominal size. (Qty.	$repm^3)$
2.	12.5 mm Size Aggregate:		Particle size distribution:	It is not single si	zed aggregate of 12.5 mm nominal size. (Qty.	$rep m^3)$
					e with 12.5 mm aggregates at the ratio of <u>1:1</u> or graded aggregate of 40 mm nominal size.	by weight; it is
3.	20 mm Size Aggregate:		Particle size distribution:	It is single sized	aggregate of 20 mm nominal size. (Qty. zed aggregate of 12.5 mm nominal size. (Qty.	rep. $m^3$ )
4.	12.5 mm Size Aggregate:		Particle size distribution:	It is not single si	zed aggregate of 12.5 mm nominal size. (Qty.	$rep m^3)$
				0 00 0	e with 12.5 mm aggregates at the ratio of <u>1:1</u> or graded aggregate of 20 mm nominal size.	by weight; it is
5.	(L.S.No.1609) ii) Silt by so		ay by S.A. method : - 5.	40%		
			edimentation : - 5.	68%		
			s Modulus : - 2.	36		
			Zone :- III			
		DE	MADK. The observed rest	ulta are within the r	permissible limits of the coarse sand.	

## **REPORT 02 OF 02**

Sr. No.	Description of sample Tested for	Results	Max. /Min. value permissible	Remark
6.	Cement:	i)Fineness of Cement	: 2.12% (It should not be	more than 10%)
	Ultratech.Cement, bearing IS:269	ii) Consistency of cement	: : 31.00% (It should be in the neighbor	orhood of 35%)
	Ordinary Portland cement,	iii) Initial Setting Time	: 175 minutes (It should not be le	ess than 30 minutes)
	Manuf. date:Week 16, Month, Year'2021	iv) Final Setting Time	: 325 minutes (It should not be more than 600 mi	
	CM/L =7171769	,	·	,
	Qty. rep. –			
	To be used for $-1:2:4$ mix concrete <b>RI</b>	EMARK: The observed results are	within the permissible limit for Ordina	rv Portland cement.

Copy to: 1. The Assistant Engineer, SDII, WDVI, WRD, Valpoi-Sattari – Goa.

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

**Junior Engineer** 

**Assistant Engineer**