GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 9931,9932/Lab/227/2021-22 Dated: 08/12/2021. <u>Laboratory</u>: Bicholim

Sand –T:5211 Cement-T: 1303

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

Sub:-Improvement to drain from Dept. of Archaeology to Mary Immaculate School along Rua de Ourem, Mala Panaji Goa.

Ref to requisition No:- SDIV/WDI/WRD/F.38/2021-22/516 Dated: 08/11/2021.

Qty. Received: 1 bags each **Date of Receipt**: 30/11/2021 **Tested on**: 02,04 & 05/12/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-** 7153,7154,7165 & 7160/SS **Lab. Sample No.**: 2455 To 2458 **Tested by**: Mrs. Shirodkar.JE.

12.5mm size aggrt., Sand, Cement

REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 mm Size Aggregate:	Particle size distribution:	It is single sized ag	gregate of 20 mm nominal size. (Qty. rep	m^3)
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single size	d aggregate of 12.5 mm nominal size. (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.	Coarse Sand:	i) Silt & Clay by S.A	. method : - 5.00%		
	(L.S.No.2457)	ii) Silt by sedimentation			
	,	iii) Fineness Modulus			
		iv) Grading Zone	: - III		
	To be used for REMARK: The observed results are within the permissible limits of the coarse sand.				
4.	Cement:		neness of Cement		ore than 10%)
	Dalmia Cement, bearing	ii) Co	onsistency of cement	: 32.50% (It should be in the neighborhood	od of 35%)
	· · · · · · · · · · · · · · · · · · ·		nitial Setting Time	: 170 minutes (It should not be less the	nan 30 minutes)
			nal Setting Time	: 315 minutes (It should not be more th	,
	CM/L =0006936289			(2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	Qty. rep. –.				
	- •	QK. The observed results	ara within the normics	sible limit for Ordinary Portland cement.	
	10 be used for –. KENIAI	AIX. THE UDSELVEU LESUITS	are within the perims	sine mint for Orumary 1 oruanu 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, W.D. I, WRD, Porvorim Goa
- 4. Q.C. Lab file 5. Bill File.