GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9891, 9892 /Lab/188/2021-22 Dated: 22 /10/2021. Laboratory: Bicholim

Sand –T: 5183, 5185, Cement-1283

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

<u>Sub</u>:-Construction of flood protection wall at Tariwada in Ward No. 06 of Village Madapai, Marcel, in V.P. Tivrem Orgao in Priol Constituency of Ponda Taluka.

Ref to requisition No:-WRD/WDXI/SDIV /F.CF/311/2021-22 Dated: 04/10/2021.

Qty. Received: 1 bags each **Date of Receipt**: 06/10/2021 **Tested on**: 11 & 12/10/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

<u>Sample</u>:Sand,20mm, <u>O.S. N:-7007,7008,7004,7009& 7015/SS <u>Lab. Sample No.</u>: 2261 To 2265 <u>Tested by</u>: Mrs. Shirodkar.JE.</u>

12.5mm size aggrt., Cement & C. Sand

REPORT 01 OF 02

1.		Tested for	Results	Max. /Min. value permissible	Remarks	
	20 mm Size Aggregate:	Particle size distribution:	It is single sized	aggregate of 20 mm nominal size. (Qty. rep.	–m 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)	
	REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is					
	satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand:	i) Silt & Clay by S.A. meth	od :- 4.80%			
	(L.S.No.2263)	ii) Silt by sedimentation	: - 5.40%			
		iii) Fineness Modulus	: - 2.62			
		iv) Grading Zone	: - II			
	To be used for REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement:	i) Finen	ess of Cement	: 1.11% (It should not be more the	han 10%)	
	Ordinary Portland cement, iii) Initia		stency of cement	: 32.00% (It should be in the neighborhood o	of 35%)	
			Setting Time	: 155 minutes (It should not be less than :	30 minutes)	
			Setting Time	: 310 minutes (It should not be more than 6	,	
	CM/L = 0003401033	·, - · · · · <u>- · · ·</u> · · · / · · · · · ·		(, , , , , , , , , , , , , , , , , , , ,	
	Qty. rep. –.					
	- •	2.4 - RFMARK. The obse	rved results are w	ithin the permissible limit for Ordinary Portlan	nd cement	

Junior Engineer

Assistant Engineer

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REPORT 02 OF 02

5. Crushed Sand: i) Silt & Clay by S.A. method :- 13.00% (Limit of Deleterious material is 15.00% for crushed sand)

(L.S.No.2265) ii) Silt by sedimentation : - 13.51% iii) Fineness Modulus : - 3.124

(v) Grading Zona : I

iv) Grading Zone :- I

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).

Copy to: 1. The Assistant Engineer, SDIV, WDXI, WRD, Ponda-Goa.

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

Junior Engineer

Assistant Engineer