GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9875,9876,9877,9878 /Lab/153/2021-22 Dated: 13/07/2021. Laboratory: Bicholim

Sand -T: 5172,5173. Cement-1275

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

<u>Sub</u>:- Urgent reinstatement of the breached canal portion including improvement and strengthening works for RBMC of TIP at chainage 12.500kms. at village Kasarvornem in Pernem Taluka.

Ref to requisition No: F.366/SDI/WDVII/WRD/2021-22/61 Dated: 21/06/2021.

Oty. Received: 1 bags each **Date of Receipt**: 02/07/2021 **Tested on**: 03,05,06/07/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

<u>Sample</u>:Sand,20mm, <u>O.S. No.</u>6741,6742,6743,6744,6773,6774,6762/SS <u>Lab. Sample No.</u>: 2040 to 2046 <u>Tested by</u>: Mrs. Shirodkar.JE.

12.5mm size aggrt., Cement

REPORT 01 OF 02

Sr. No.	Description of sar	mple Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 mm Size Ag	gregate: Particle size dist	ribution: It is single sized	aggregate of 20 mm nominal size. (Oty. 1	$repm^3$
2.	12.5 mm Size A (L.S.No.2040	ggregate: Particle size dist	ribution: It is not single si	aggregate of 20 mm nominal size. (Qty. 1 zed aggregate of 12.5 mm nominal size. (Qty. 1	rep. – m ³)
	(2.5.110.2010	REMARK: After		with 12.5 mm aggregates at the ratio of <u>1:1</u> b ia for graded aggregate of 20 mm nominal si	• 0 /
3.	20 mm Size Ag	gregate: Particle size dist	ribution: It is single sized	aggregate of 20 mm nominal size. (Qty. 1	$repm^3$
4.	12.5 mm Size A (L.S.No.2041,2		ribution: It is not single si	aggregate of 20 mm nominal size. (Qty. 1 zed aggregate of 12.5 mm nominal size. (Qty. 1	$rep m^3)$
	(L.S.110.2041,2	REMARK: Afte	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.	Sand:	i) Silt & Clay by S.A. method	: - 5.00%		
	(L.S.No.2044) ii) Silt by sedimentation : - 5.5		: - 5.55%		
	iii) Fineness Modulus :- 2		: - 2.30%		
		iv) Grading Zone	:- II		
		REMARK: The	observed results are within	the permissible limits of the coarse sand.	

REPORT 02 OF 02

Sr. No.	Description of s	sample Tested for	Results	Max. /Min. value permissible	Remarks	
6.	Sand:	i) Silt & Clay by S.A. m	nethod : - 4.80%			
	(L.S.No.2045)	ii) Silt by sedimentation	: - 5.20%			
		iii) Fineness Modulus	: - 2.33%			
		iv) Grading Zone	: - II			
	REMARK: The observed results are within the permissible limits of the coarse sand.					
7.	Cement:		i)Fineness of Cement	: 1.19% (It should not be mo	re than 10%)	
	Jyoti Cement, bearing IS:269		ii)Consistency of cement	: 31.00% (It should be in the neighborhood	od of 35%)	
	Ordinary Portland cement,		iii) Initial Setting Time	: 185 minutes (It should not be less t	,	
	Manuf. date: W/M- Invisible Year'2021.		,	: 330 minutes (It should not be more the	,	
	CM/L =6894808			,	,	
	Qty. rep. –.	_				
	To be used for -	DEMA	DK. The observed results are w	ithin the permissible limit for Ordinary Port	land coment	

Copy to: 1. The Assistant Engineer, SDI, WDVII, WRD, Dhargal-Pernem – Goa.

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

Junior Engineer

Assistant Engineer