GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Sand -T: 5153,5154. Cement-1259

4.

12.5 mm Size Aggregate:

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

<u>Sub</u>: Construction of Pilgao-Narve Distributory of LBMC of TIP from ch.8670m to ch.10725m at Narve village in Bicholim Taluka.

Ref to requisition No: SDII/WDVIII/WRD/F.160/2020-21/05 Dated: 17/04/2021.

Qty. Received: 1 bags each **Date of Receipt**: 23/04/2021 **Tested on**: 29 & 30/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. No.: 6034, 6035, 6036, 6051 & 6052 / SS Lab. Sample No.: 1322 To 1326 Tested by: Mrs. Shirodkar. JE.

12.5mm size aggrt., Cement REPORT 01 OF 02

Particle size distribution:

r. No.	Description of sample	Tested for Results	8	Max. /Min. value permissible	Remarks
1.	Sand:	i) Silt & Clay by S.A. method	d :- 4.6	50%	
	(L.S.No.1322)	ii) Silt by sedimentation	: - 4.1	16%	
		iii) Fineness Modulus	: - 2.5	58	
		iv) Grading Zone	:- II		
To	o be used for –	REMARK: The observed results are with	nin the per	missible limits of the coarse sand.	
			-		
	CrushedSand:	i) Silt & Clay by S.A. method	:- 12.2	20% (Limit of Deleterious material is 15.0	00% for crushed sand
		i) Silt & Clay by S.A. method ii) Silt by sedimentation	: - 12.2 : - 13.3	20%(Limit of Deleterious material is 15.0	00% for crushed sand
То 2.	CrushedSand:	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus	:- 12.2 :- 13.3 :- 2.68	20%(Limit of Deleterious material is 15.0	00% for crushed sand
	CrushedSand:	i) Silt & Clay by S.A. method ii) Silt by sedimentation	: - 12.2 : - 13.3	20%(Limit of Deleterious material is 15.0	00% for crushed sand

<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 therequired criteria for graded aggregate of 20 mm nominal size.

It is not single sized aggregate of 12.5 mm nominal size. (Otv. rep. $--m^3$)

REPORT 02 OF 02

Cement:							
		i)Fineness of Cement	: 1.23% (It should not	be more than 10%)			
		ii) Consistency of cement : 31.00% (It should be in the neighborhood of 35%)					
		iii) Initial Setting Time	`	,			
•	·	iv) Final Setting Time	: 315 minutes (It should not	be more than 600 minutes)			
CM/L = 6200022577							
Qty. rep. –.							
To be used for – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.							
	Ordinary Portland ceme Manuf. date: W/M-Invi CM/L = 6200022577 Qty. rep. –.	Qty. rep. –.	Ordinary Portland cement, Manuf. date: W/M-Invisible Year-2021 CM/L = 6200022577 Qty. rep	Ordinary Portland cement, Manuf. date: W/M-Invisible Year-2021 CM/L = 6200022577 Qty. rep iii) Initial Setting Time iv) Final Setting Time : 165 minutes (It should not lead to be considered in the constant of the constant o			

Copy to: 1. The Assistant Engineer, SDII, WDVIII, WRD, Tivim – Goa.

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

Junior Engineer

Assistant Engineer