

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD /Q.C./F.6-4/ Aggr-T- 9496,9497 / Lab / **328** /2019-20 Dated: - 12 / 12 /2019. **Laboratory:** Bicholim -Goa
Sand.T- 4950 **Sub Div:** V (QC)/WRD/Bicholim -Goa

Sub:- Construction of protection wall to the embankment toe of R.B.M.C. of T.I.P. between chainage 13.950 Km To 14.00 Km at village Ozarim in Pernem Taluka.

Ref to requisition No: - SD I / WD VII / WRD / F.353 / 2019-20 / **241** Dated:- 09 / 12 / 2019.
Qty. Received: 1 bags each **Date of Receipt:-** 09 / 12 / 2019 **Tested on:** - 10,11/12/2019 **Ref to Specification:** CPWD 2002, Vol. I
Sample: 20mm, 12.5mm size aggrt, **O.S. No. :** 1213/AF To 1215/AF **Lab. Sample No.:-** 7136 To 7138 **Tested by:** Mr. Anil R Fadte., J.E.
& Sand. .

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Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<u>20.00 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – ----- m ³)	
2.	<u>12.50 mm Size Aggregate:</u>	Particle size distribution:	It is not single sized 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 **1:2** by weight; it is satisfying the required criteria for Graded aggregate of 20 mm nominal size.

3.	<u>Sand:</u>	i) Silt & Clay by S.A. method	: - 4.60 %	Qty. rep. – ---- m ³
		ii) Silt by sedimentation	: - 4.76 %	
		iii) Fineness Modulus	: - 1.980	
		iv) Grading Zone	: - III	

REMARK: The observed results are within permissible limits of the coarse sand.

Copy to: 1. The Assistant Engineer, S. D. I, WD VII, WRD, Dhargal -Pernem – Goa.
2. Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Submitted to The Executive Engineer, W.D. VII, WRD, Dhargal -Pernem – Goa.
4. Q.C. Lab file 5. Bill File

Junior Engineer

Assistant Engineer