## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T-9566, 9567 /Lab/ 463 /2019-20

Dated: 02/03//2020

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

Sand –T: 4991 <u>Sub Div</u>: V (QC)/WRD/Bicholim <u>Sub Div</u>: V (QC)/WD/WC <u>Sub Div</u>: V (QC)/WD/WC <u>Sub Div</u>: V (QC)/WD/WD/WC <u>Sub Div</u>: V (QC)/WD/WC <u>Sub Di</u>

Oty. Received:1 bags eachDate of Receipt:10/02/2020Tested on:13 & 14/02/2020Ref to Specification:CPWD 2009, Vol. I& IS:383-2016Sample:20mm, 12.50mm size aggrt,O.S. No.1784 To 1786 / AFLab. Sample No.:7909 To 7911Tested by:Mr. Anil R. Fadte, JE.M. Sand.

## <u>R E P O RT 01 OF 01</u>

Sr. No.	Description of sample	Tested for	R	Results	Max. /Min.	value permissible	Remarks
1(a). 2 (a).	20 mm Size Aggregate: 12.5 mm Size Aggregate:	Particle size distribution: Particle size distribution:	It is single sized a It is not single size	ed aggregate of 2	20 mm nominal size. of 12.5 mm nominal size.	(Qty. rep $m^3$ ) (Qty. rep $m^3$ )	
<u>REMARK:</u> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:2</u> by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.							
1 (b). 2 (b).	20 mm Size Aggregate: 12.5 mm Size Aggregate:	Combined flakiness & Elor Combined flakiness & Elor	ngation index:- 13 ngation index:- 17	3.90 % 7.56 %	Should be less than 40 % Should be less than 40 %	(Qty. repm <sup>3</sup> ) (Qty. rep m <sup>3</sup> )	
1 (c). 2 (c).	20 mm Size Aggregate: 12.5 mm Size Aggregate:	Average Bulk Density : Average Bulk Density :	1.673 gm/cc. 1.635 gm/cc			(Qty. rep $m^3$ ) (Qty. rep $m^3$ )	
3. M.	. S <u>and:</u> ( Material ii) Silt & C ( Material ii) Silt by iii) Finene iv) Gradin	Clay by S.A. method finer than 75 Micron IS Siive sedimentation ss Modulus g Zone	: - 9.40% e) : - 11.76% : - 3.13 : - I	Lim	t of Deleterious Material is	15.00 % for crushed sand	
REMARK:- The observed result are within the permission limits for crushed sand (Fine Aggregate ) vide Table 2 of IS 383 : 2016 (Clause 5.2.1)							

Copy to: 1. The Assistant Engineer, SDI, WDVI, WRD, Bicholim – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D.VI, WRD, Bicholim – Goa.

4. Q.C. Lab file 5. Bill File

**Junior Engineer** 

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