

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

**Test Report No.:** WRD/QC/F.6-4/Aggr-T- 9935,9936/Lab/238/2021-22 **Dated:** 03/ 01/2022.

**Laboratory:** Bicholim

**Sand –T:**5213,5214

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

**Sub:** Construction of Pilgao – Narve Distributory of LBMC of TIP from ch.8670m to ch.10725m at Narve village in Bicholim Taluka.(Balance Work)

**Ref to requisition No:-** S.D.II/W.D.VIII/W.R.D./F.160-1/2021-22/93 **Dated:** 08/12/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 14/12/2021 **Tested on:** 15,16 & 17 /12/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand,20mm, **O.S. No.** 7195,7199,7196 & 7197/SS **Lab. Sample No.:** 2474 To 2477 **Tested by:** Mrs.Shirodkar.JE.

12.5mm size aggrt.,

**R E P O R T 01 OF 01**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	<b>Sand:</b> (L.S.No.2474)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 5.12% : - 2.70% : - II		<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.
2.	<b>Crushed Sand:</b> (L.S.No.2475)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 11.80% (Limit of Deleterious material is 15.00% for crushed sand) : - 13.95% : - 2.15% : - III		<b>REMARK:</b> The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016 (Clause 5.2.1).
3.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m <sup>3</sup> )	
4.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m <sup>3</sup> )	
<b>REMARK:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					

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

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

3. Copy Submitted to The Executive Engineer,WDVIII,WRD, Karaswada - Bardez – Goa

4. Q.C. Lab file 5. Bill

**Junior Engineer**

**Assistant Engineer**