

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 167,168/Lab/102/2022-23    **Dated:-** 30/ 05 /2022.    **Laboratory:** Bicholim  
Sand –T:5292    **Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:-**Construction of 30 MLD Raw Water Pumping Station at Calangute on Calangute distributary of Tillari Canal for Pilerne Industrial Estate and Surrounding Villages of Calangute and Saligao.

**Ref to requisition No:-** WRD/WDI/SDV/F.27/2022-23/57    **Dated:** 20/05/2022.

**Qty. Received:** 1 bags each    **Date of Receipt:-**23/05/2022    **Tested on:-**25,26 & 27/05/2022    **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm,    **O.S. N:-** 8633,8634 & 8663/SS    **Lab. Sample No.:** 4566 to 4568    **Tested by:** Mrs. S.B. Naik Shirodkar J.E.  
10.00mm size aggrt.

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

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<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> )	
2.	<b>10.00 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 10.00 mm nominal size.	(Qty. rep. – -- m <sup>3</sup> )	
<b>REMARK:</b> After blending 20 mm aggregate with 10.00 mm aggregates at the ratio of <b>1:1</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Crushed Sand:</b> (L.S.No.4568)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 14.00% : - 14.28% : - 2.51% : - II	( <b>Limit of Deleterious material is 15.00% for crushed sand</b> )	

**REMARK:**The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).

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

**Junior Engineer**

**Assistant Engineer**