GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 165,166/Lab/**99**/2022-23   **Dated:-** 27/ 05 /2022.   **Laboratory:** Bicholim

Sand –T:5291   **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.27/2022-23/56   Dated: 20/05/2022.

Qty. Received: 1 bags each **Date of Receipt**:-23/05/2022 **Tested on**:-24,25 & 26/05/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm, **O.S. N:-** 8619,8620 & 8646/SS   **Lab. Sample No**.: 4563 to 4565   **Tested by**: Mrs. S.B. Naik Shirodkar J.E.

10.00mm size aggrt.

R E P O RT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m^3)	
2.	**10.00 mm Size Aggregate**:	Particle size distribution:	It is single sized aggregate of 10.00 mm nominal size.	(Qty. rep. – -- m^3)	

REMARK: After blending 20 mm aggregate with 10.00 mm aggregates at the ratio of **1:1** by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.

3.	**Crushed Sand:**	i) Silt & Clay by S.A. method : - 12.00%(**Limit of Deleterious material is 15.00% for crushed sand)**
	(L.S.No.4565)	ii) Silt by sedimentation : - 11.36%
		iii) Fineness Modulus : - 2.87%
		iv) Grading Zone : - II

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**