GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 143,144/Lab/**41**/2022-23   **Dated:-** 20/ 04 /2022.   **Laboratory:** Bicholim

Sand –T:-5278.   Cement-T:- 1360.   **Sub Div:** V(QC)/WRD/Bicholim Goa.

Sub:- Improvement to existing Irrigation Tank in Sy. No. 38/5, for Mines affected areas of Pissurlem in Sattari Taluka.

Ref to requisition No:- MIN/WDVI/WRD/SDII/f.62/22-23/23   Dated :- 12/04/2022

Qty. Received: 1 bags each   **Date of Receipt**:- 12/04/2022   **Tested on**:- 16,17 & 18 /04/2022   **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm,   **O.S. No.** 8208,8209,8249 & 8214/SS   **Lab. Sample No**.: 3852 to 3855   **Tested by**:- Mrs. S. B. Naik Shirodkar J.E.

12.5mm size aggrt., Cement

R E P O RT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m^3)	
2.	**12.5 mm Size Aggregate**:	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 **1:1** by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.

3.	**Coarse Sand:** (L.S.No.3854)	i) Silt & Clay by S.A. method : - 4.40%			
		ii) Silt by sedimentation : - 5.00%			
		iii) Fineness Modulus : - 2.16%			
		iv) Grading Zone : - III			

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

4.	**Cement:**	i) Fineness of Cement : 1.19% ----------- (It should not be more than 10%)	
	J.K. Cement, bearing IS:269	ii) Consistency of cement : 31.00% (It should be in the neighborhood of 35%)	
	Ordinary Portland cement,	iii) Initial Setting Time : 140 minutes ---- (It should not be less than 30 minutes)	
	Manuf. date: W- 14, M- 04, Year-2022	iv) Final Setting Time : 280 minutes -- (It should not be more than 600 minutes)	
	CM/L =0003401033		
	Qty. rep. –_____--.		

To be used for CC 1:2:4 -**REMARK: The observed results are within the permissible limit for Ordinary Portland cement.**

Junior Engineer   **Assistant Engineer**