

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 105,106/Lab/332/2021-22 **Dated:-** 15/ 03 /2022.

Laboratory: Bicholim

Sand –T:-5256. Cement-T:- 1340.

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

Sub:- Improvement and protection of Intake to Lift Irrigation Scheme at Nayawada, Ansolem V.P. Bhironda in Sattari Taluka.

Ref to requisition No:- MIN/WDVI/WRD/SDII/f.62/21-22/449

Dated :- 24/02/2022

Qty. Received: 1 bags each **Date of Receipt:** 07/03/2022 **Tested on:-** 08,10 & 11 /03/2022

Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. No.**7869,7870,7892 & 7882/SS

Lab. Sample No.: 3277 To 3280

Tested by:- Mrs. S. B. Naik Shirodkar J.E.

12.5mm size aggrt., Cement

R E P O R T 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.3279)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.12% : - 2.39% : - II		
REMARK:- The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Zuari Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- invisible,M- ,Year-2022 CM/L =0006077671 Qty. rep. – ____--.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.15% : 32.50% : 160 minutes : 275 minutes	----- (It should not be more than 10%) (It should be in the neighborhood of 35%) ---- (It should not be less than 30 minutes) -- (It should not be more than 600 minutes)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII,WDVI,WRD, Valpoi – Sattari – Goa.

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

3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim – Goa

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

Junior Engineer

Assistant Engineer