

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9845,9846 /Lab/56/2021-22 **Dated:** 05/ 05/2021. **Laboratory:** Bicholim
Sand –T: 5155. Cement-1261 **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub: Improvement to the Minor 1 & 2 of Lift Irrigation Scheme No.I at Village Kasarvornem in Pernem Taluka.

Ref to requisition No: SDI/WDVII/WRD/F.355/2021-22/25 **Dated:** 23/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 27/04/2021 **Tested on:** 03 & 04/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.:** 6068, 6069, 6094, 6067 /SS **Lab. Sample No.:** 1364 To 1367 **Tested by:** Mrs. Shirodkar. JE.

12.5mm size aggrt., Cement

R E P O R T 01 O F 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.	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.	Sand: (L.S.No.1366)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80% : - 4.44% : - 2.88 : - II		
To be used for – REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Jyoti Strong.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:Week:-18 Month:-04 ,Year:-2021 CM/L =6894808 Qty. rep. –.		i)Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.20% ----- (It should not be more than 10%) : 31.50% (It should be in the neighborhood of 35%) : 155 minutes ---- (It should not be less than 30 minutes) : 305 minutes -- (It should not be more than 600 minutes)	
To be used for – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

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

Junior Engineer

Assistant Engineer