

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9957,9959,9958,9960/Lab/259/2021-22 **Dated:-** 10 / 01 /2022.

Laboratory: Bicholim

Sand –T:-5227,5228. Cement-T:- 1316.

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

Sub:- “Improvement to CAD network of field channels of Minor-1, Minor-2 and Minor-5 and Extension of field channels of Minor-1 and Minor-5 of B-6 Distributory at Torshem Village in Pernem Taluka”.

Ref to requisition No.:- SD II/WDVII/WRD/F.18/2021-22/94 **Dated :-** 29/12/2021

Qty. Received: 1 bags each **Date of Receipt:-** 31/12/2021 **Tested on:-** 05,06 & 07/01/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.:-** 7279,7281,7280,7282,7291,7300 & 7278/SS **Lab. Sample No.:** 2587 To 2593 **Tested by:-** Mrs. S. B. Naik Shirodkar J.E.

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	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: (L.S.No.2587 – 2589)	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.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
4.	12.5 mm Size Aggregate: (L.S.No.2588 – 2590)	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.					
5.	Coarse Sand: (L.S.No.2591)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.55% : - 2.88% : - II	6. Coarse Sand: (L.S.No.2592)	i) Silt & Clay by S.A. method : - 5.40% ii) Silt by sedimentation : - 5.71% iii) Fineness Modulus : - 2.40% iv) Grading Zone : - III
REMARK:- The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 50, M- 12, Year-2021 CM/L = 0003401033 Qty. rep. – ----.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.23% ----- (It should not be more than 10%) : 32.00% (It should be in the neighborhood of 35%) : 155 minutes ---- (It should not be less than 30 minutes) : 310 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, SDIV,WDVII,WRD, Dhargal, Pednem– Goa.

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

3. Copy Submitted to The Executive Engineer, WDVII, WRD, Dhargal, Pednem – Goa

4. Q.C. Lab file 5. Bill

Junior Engineer

Assistant Engineer