

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 321,322/Lab/58/2023-24 **Dated:-15/05/2023.**

Laboratory: Bicholim-Goa

Sand –T:- 5389. Cement-T:- 1446.

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

Sub:- Improvement to existing tank (Tali) and Renovation of existing well at Surbanwada Pernem Municipal area in Pernem Taluka.

Ref to requisition No:- MI/SDIII/WDI/WRD/F.58/2023-24/37 **Dated :- 09/05/2023**

Qty. Received: 1 bags each **Date of Receipt:-** 10/05/2023 **Tested on:-** 11 & 12/05/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. NO:-** 1177/RK & 830,831,832/SS. **Lab. Sample No :-** 7067 to 7070 **Tested by:-** Mrs. R.R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and Cement

R E P O R T 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20.00 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 the required criteria for graded aggregate of 20 mm nominal size.					
3.	Coarse Sand: (L.S.No.7069)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	:- 3.80% :- 4.00% :- 2.785% :- II		
REMARK: The observed results are within the permissible limits of the Coarse sand.					
4.	Cement: JK Super OPC Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible,M-03,Y-2023 CM/L = 0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.18% :- 32.00% :- 150 minutes :- 280 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)	
To be used for - REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to:1. The Assistant Engineer, SDIII, WDI, WRD, Pernem– Goa.

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

3. Copy Submitted to The Executive Engineer, WDI, WRD, Porvorim– Goa.

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

Assistant Engineer