

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9997, 9998/Lab/ 306/2021-22 **Dated:-** 21 / 02 / 2022. **Laboratory:** Bicholim
Sand –T: 5251. Cement-T: 1335. **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub:- Improvement to existing nalla bank from Umakant Dhargalkar house up to Sheryl Hart house in Ward No. 01 Mapusa Municipal Council Cuchelim in Mapusa Constituency.

Ref to requisition No:- SDII/WDI/WRD/F.24/21-22/395

Dated :- 14/01/2022

Qty. Received: 1 bags each **Date of Receipt:-** 11/02/2022 **Tested on:-** 16,17 & 18/02/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. N:-** 7684, 7685, 7703 & 7671 /SS **Lab. Sample No.:-** 2958 To 2961 **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	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.2960)		i) Silt & Clay by S.A. method : - 5.800% ii) Silt by sedimentation : - 5.55% iii) Fineness Modulus : - 2.67% iv) Grading Zone : - II		
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-04, M-02, Year -2022 CM/L = 0003401033 Qty. rep. –.		i) Fineness of Cement : 1.27% ii) Consistency of cement : 30.00% iii) Initial Setting Time : 150 minutes iv) Final Setting Time : 285 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, WDI, WRD, Mapusa, Bardez – Goa.
 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
 3. Copy Submitted to The Executive Engineer, W.D.I, WRD, Porvorim – Goa
 4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer