

**QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.6-3/Soil. T:- 1517,1518 & 1519 /Lab/**279**/2021-22 Dated: 03/ 02 /2022.
Sand-T:- 5236. Aggr-T:-9971,9972. Cement-T:- 1324.

Laboratory: Bicholim
Sub Division: V (QC)/WRD/Bicholim

Sub.: Strengthening to Katrache Khazan bund (Cantorlacho bund) at Moira in Bardez Taluka.

Ref to requisition No.: 2-Accts/F.240/Work/SCD/D.Aggi/2021-22/882 dt:-12/01/2022

Qty. Received: ½ bag Soil. **Date of Receipt:** 18/01/2022 **Tested on:** 23,24,25&26/01/2022 **Ref to IS/CPWD Specification:** IS: 2720, Part IV,V, 1985,4031,1968

Sample of: Soil, Sand,20mm, **O.S. No. :** 7467,7468,7492,7465,7452,7453 & 7451/SS **Lab. Sample No.:** 2766 to 2770 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.5mm size aggrt ,Cement

R E P O R T 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max./Min. value permissible	Remarks
1.	Soil: (L.S.No.2766)	I) Plasticity Index.	Liquid Limit :- 31.75% Plastic Limit :- 26.46% Plasticity Index :- 5.29%	----	----
		II. Sieve Analysis	a) Silt and Clay by Sieve Analysis :- 38.20% b) Fine Sand :- 2.40% c) Medium Sand :- 19.60% d) Coarse Sand :- 9.60% e) Gravel :- 30.20%		
2.	Sand: (L.S.No.2767)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.20% : - 5.128% : - 2.49% : - II		
	To be used for----	REMARK: The observed results are within the permissible limits of the coarse sand.			
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:	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 **1:2** by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size

Junior Engineer

Assistant Engineer

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R E P O R T 02 OF 02

5. Cement:

J.K.Cement, bearing IS:269

Ordinary Portland cement,

Manuf. date: W-02 M-01, Year-2022

CM/L =0003401033

Qty. rep. –.

To be used for –

i) Fineness of Cement : 1.12% ----- (It should not be more than 10%)

ii) Consistency of cement : 32.50% (It should be in the neighborhood of 35%)

iii) Initial Setting Time : 150 minutes ---- (It should not be less than 30 minutes)

iv) Final Setting Time : 280 minutes -- (It should not be more than 600 minutes)

REMARK: The observed results are within the permissible limit for Ordinary Portland

Copy to: 1. The Assistant Engineer, o/o The Executive Engineer, Soil Conservation Division, Directorate of Agriculture, Krishi Bhavan, Tonca Caranzalem - Goa.
2. Q.C. Lab file 3. Bill File.

Junior Engineer

Assistant Engineer