

**QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.6-3/Soil. T- 1497 to 1502, /Lab/ **307** /2020-21/ Dated: 22 / 03/2021.

Laboratory: Bicholim

Sub Division: V (QC)/WRD/Bicholim

Sub.: Improvement to the existing Bund and Manas at Konadi Corgao in Pernem Taluka.

Ref to requisition No.: WRD/SDV/QC/WDVIII/F-3-9/2020-21/334 dt: 05/03/2021 (Qc Programme) sample Collected by QC (N) from site

Qty. Received: 2 Core. **Date of Receipt:** 04/03/2021 **Tested on:** 06,17,18 & 19/03/2021 **Ref to IS/CPWD Specification:** IS: 2720, Part VII, 1980

Sample of: Soil **O.S. No. :** 5294,5463,5464,5465,5466/SS **Lab. Sample No.:** 724 to 726/SS. **Tested by:** Mrs. S.B. Naik Shirodkar ,J.E

REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max./Min. value permissible	Remarks
1.	Soil core sample collected from site on 04/03/2021 at ch.350m at RL 3.2m	Field Test			Core test results cannot be compared with O.M.C and M.D.D. to check the percentage achieved to meet the requirement of table 300-2 as per MORTH Specification 305, since the soil samples are not tested in the laboratory prior to the commencement of Embankment of soil. However Engineer in-charge may Decide.
	Core I (L.S.No.724)	a) F.D.D. b) F.M.C.	1.900 gm /cc 16.49%		
	Core I (L.S.No.725)	a) F.D.D. b) F.M.C.	1.703 gm/cc 18.92%		
2.	Soil Collected from Site on 04/03/2021 (L.S.No. 726)	I) Proctor values a) M.D.D. (from graph) b) O.M.C. (from graph)		:- 1.656/cc :- 21.00%	

Junior Engineer

Assistant Engineer

REPORT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max./Min. value permissible	Remarks
		II) Sieve Analysis			
		a) Silt and Clay by Sieve Analysis	:-	46.00%	
		b) Fine Sand	:-	1.80%	
		c) Medium Sand	:-	12.80%	
		d) Coarse Sand	:-	7.80 %	
		e) Gravel	:-	31.00%	
3.	Soil: (L.S.No.)	I) Plasticity Index.			
		Liquid Limit	:- 54.50 %		As per the Morth , Specification 305, Plasticity Index and Liquid Limit should not be more than 20% and 40% respectively for embankment around structure. As such Engineer In-charge may decide
		Plastic Limit	: - 30.34 %		
		Plasticity Index:	- 24.16%		

Copy to: 1. The Assistant Engineer, SDIII, WD I, WRD, 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.I, WRD, Porvorim – Goa.
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer