

Appendices

Appendix A

Product tank foundation questionnaire



جامعة السودان للعلوم والتكنولوجيا
كلية الدراسات العليا

الغرض الاساسي للمعلومات المطلوبة هو استبيان بحث لنيل درجة الماجستير في (P.T.F.)
اساسات خزانات منتجات الوقود في السودان

Products Tank Foundation in the Sudan

Construction Questionnaire:

- ❖ We start working in this field since
- ❖ Product Tank Foundation for: Factories Terminals
- ❖ Location: Krt.: Omd.: Krt. N.: Other Cities:
- ❖ Design reference: API: BS: Combination: Others:

In case of Factories:

- ❖ Profile exploration and Soil test: Yes No
- ❖ Type of test: Classification: Field density: Consolidation Shear:
- ❖ Excavation shape: Cylindrical: Inverted conical: Rectangular: Square:
- ❖ Filling material type: ISG: Fine aggregate: Combination:
- ❖ Properties of materials (Testing): Yes: No:
- ❖ Filling layer depth: ISG: Fine aggregate: Combination:
- ❖ Compaction effort:
 1. Large scale: > 10 m dia. SD: DD: Pneumatic: Protrusion:
 2. Small scale: < 10 m dia. DC: EC: Manual: Combination (Mec./man.):
- ❖ Retaining wall referring to: 45 deg. Angle: 60 deg. Angle:
- ❖ RC Retaining wall: Insitu cast: Precast units:
- ❖ Other Retaining wall: Ord. red BKW: H blocks: Mud BK:
Adobe: Mud:
- ❖ Difficulties during construction: Yes: No:
- ❖ Difficulties: Materials: Workmanship: Combination:
- ❖ Remarks: Modifications Supervisin:
Any other:
.....
.....
.....

SD: single drum

DD: double drum

DC: diesel compactor

EC: electrical compactor

Signature:

Date:

In case of Terminals:

- ❖ Profile exploration and Soil test: Yes No
- ❖ Type of test: Classification: Field density: Consolidation Shear:
- ❖ Excavation shape: Cylindrical: Inverted conical: Rectangular: Square:
- ❖ Filling material type: ISG: Fine aggregate: Combination:
- ❖ Properties of materials (Testing): Yes: No:
- ❖ Filling layer depth: ISG: Fine aggregate: Combination:
- ❖ Compaction effort:
- 3. Large scale: > 10 m dia. SD: DD: Pneumatic: Protrusion:
- 4. Small scale: < 10 m dia. DC: EC: Manual: Combination (Mec./man.):
- ❖ Retaining wall referring to: 45 deg. Angle: 60 deg. Angle:
- ❖ RC Retaining wall: Insitu cast: Precast units:
- ❖ Other Retaining wall: Ord. red BKW: H blocks: Mud BK:
Adobe: Mud:
- ❖ Difficulties during construction: Yes: No:
- ❖ Difficulties: Materials: Workmanship: Combination:
- ❖ Remarks: Modifications Supervisor:
Any other:
.....
.....
.....

SD: single drum

DD: double drum

DC: diesel compactor

EC: electrical compactor

Signature:

Date: