Geotechnical Investigation Report for Shelter and Health Centre Lac Assal.

A. Depth Digging test pits

i. TP1 - 200mm (img-2416)

ii. TP2 - 310mm (img-2339)

iii. TP3 - 410mm (img-2362)

iv. TP4 - 440mm (img-2358)

v. TP5 - 500mm (img-2433)

B. Below this natural ground levels all pits show rock (Hard) like basalt rock, see attached pictures.

C. No digging was going on after such level.

D. No water table is encountered at site.

E. The location of strata containing organic materials such as salty soil.

F. Ground water level measurement was not done as we couldn't reach depth because of rock foundation.

G. Excavator was used for test pits excavation.

H. Test pits locations plan attached with site plan.

I. Date of starting – 11/08/2018

J. Date of finishing – 12/08/2018

K. Backfilling completed properly after test pit sample and compaction was done by excavator bucket.

L. Weather condition 11/08/2018 sunny 42° c (Approx.)

M. Weather condition 12/08/2018 sunny 42° c (Approx.)

N. There is no possibility of soil potential volume change. We tested the Free Swell Index Test and the result is coming zero.

O. As per site condition there is no possibility of Flooding.

P. Daily Wind blows will affect steel and concrete structure because small particles of salt are carried with it.

Q. We recommend anti corrosive material panting for any exposed steel.

R. We will need bitumen coat for foundation.

S. As per site condition we recommend shallow foundation.

T. Surface test pits plan attached.

U. Vertical test pits shown in sections.

V. Coloured photographs of each test pits Attached.

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PIT LOCATIONS DIAGRAM OF SHELTER AND HEALTH CENTRE LAC ASSAL

SECTION PIT NO.1

SECTION PIT NO2.

SECTION PIT NO3

SECTION PIT NO.4

SECTION PIT NO.5