ENGINEERING DRAWINGS

FOR

ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES

Service Contract No: YOL SC 14

GANYE - GANGARASO WATER SCHEME

CLIENT:

USAID/MERCY CORPS

CONSULTANTS:

KONSADEM ASSOCIATES LTD
Engineers & Consultants
30, Onireke Layout,
P.M. B. 5478, Ibadan, NIGERIA.
E-mail:konsadem@gmail.com

2ML CONSULTING NIGERIA LTD
Office 8, B1-Close Off 69(A) Road
Gwarinpa Abuja,

MAY, 2021.
Lockable Temporary Steel Cap

250mm dia. API Steel/UPVC Casing

Cement grout in borehole annulus 6m from ground level

Backfill with cutting from drill hole

250/150mm dia. mild steel/UPVC Adapter

Gravel pack with 2-4mm dia. gravel inserted to a minimum of 3m above the screen

150mm dia. stainless steel/UPVC screen

1.5m length of 150mm dia. plain casing as sump

Borehole depth as specified

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PROJECT: ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES

STATE: SMALL TOWN

DRAWING TITLE: GANGARASO WATER SCHEME GANYE

DRAWING NO.: BB/TP/01

SCALE: 1:50

DRAWN: ENGR Soji

MAY 2021

Checked:

Traced:

Drawn:

Date:

Mark:

Revision:

USAID/MERCY CORPS

USAID/BAY/AD-GAN

KONSADEM ASSOCIATES LTD

2ML CONSULTING NIGERIA LTD

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ADAMAWA
NOTE:
Soil bearing capacity is to be determined by contractor on site for the foundation of tower.
DETAIL-B

80x80x8mm EA diagonal bracing
100x100x8mm EA
8mm Gusset Plate welded to stanchion
80x80x8mm EA diagonal bracing

16mm thick base plate
Reinforced concrete (1:2:4)
22mm dia. rod with threaded end

DETAIL-A

80x80x8mm EA diagonal bracing
8mm Gusset Plate welded to stanchion
100x100x8mm EA
80x80x8mm EA diagonal bracing

DETAIL-C
1. CONCRETE GRADE = 25
2. STEEL GRADE = 43
3. SOIL BEARING CAPACITY (ASSUMED) = 100kN/m²
4. WIND LOADING CONDITIONS = 40m/s²
5. ELECTRODE: A3x3/1.00mm
   5.5mm thick fillet weld on body panels
   10mm thick butt welding on base.

PAINTING:
   a. Internal section of tank with 1 coat of epoxy primer followed by 2 coats asphaltic paint.
   b. External surface of tank including the access ladder and ventilation beams with red oxide base followed by 2 coats of HR aluminium paint (5200)
TYPICAL PUBLIC STAND POST DETAILS

TEE 25mm x 25mm

#25mm uPVC pipe (PN 16)

25mm Tap TaFlo Valve

Wire Mesh and #8mm Vertical Bars

#25mm uPVC Pipe (PN 16)

Wire Mesh

90° RED (SCH40) C1 25mm

#50mm uPVC Pipe

Reducer

Board Stopcock

Clamp Saddle

SECTION A-A

uPVC Distribution Main

TaFlo Tablot Valve

CLIENT: USAID/MERCY CORPS

ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YORE (BAY) STATES

Consultant: KONSADEM ASSOCIATES LTD

Small Town: Adamawa

Drawn: Engr Soji

Date: MAY 2021