ENGINEERING DRAWINGS
FOR
ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES
Service Contract No: YOL SC 14
GANYE - OLD MARKET PHCC

CLIENT: USAID/mercy corps
CONSULTANTS: KONSADEM ASSOCIATES LTD
Engineers & Consultants
30, Onireke Layout,
P.M. B. 5478, Ibadan, NIGERIA.
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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
Dependent on dimension of solar panel

PLAN VIEW

40 x 40mm Angle bar

SIDE VIEW

80mm

PROTECTIVE FRAME FOR SOLAR PANEL
NOTE:
Soil bearing capacity is to be determined by contractor on site for the foundation of tower.

SIDE VIEW

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

60x60x6mm base iron diagonal bracing
60x60x6mm tie beam
8mm Gusset Plate welded to stanchion
60x60x6mm base iron diagonal bracing

DETAIl-X

60x60x6mm base iron diagonal bracing
8mm Gusset Plate welded to stanchion
60x60x6mm tie beam
60x60x6mm base iron diagonal bracing

DETAIl-Y

FRONt VIEW

60x60x6mm base iron diagonal bracing
60x60x6mm tie beam

DETAIl-Z

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

- 4 N0s. 22.5mm dia. hole
- 4 N0s. 22mm dia. holedown bolt
- 152X152x37 UC on 16mm base plate