ENGINEERING DRAWINGS

FOR

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

Service Contract No: YOL SC 14

GANYE - GRA GOVERNMENT GIRLS PRIMARY AND SECONDARY SCHOOL

CLIENT: MERCY CORPS

CONSULTANTS:

USAID/ MERCY CORPS

KONSADERM ASSOCIATES LTD

Engineers & Consultants
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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.
FROM EXISTING BOREHOLE

I NO. NEW SOLAR POWERED BOREHOLE (Location to be determined by Geophysical survey)

KERBS STONE

GRANITE CHIPPINGS

KERBS STONE

FENCE

GATE

To Reticulation

See Elevation

Tank Details

STORAGE
Lockable Temporary Steel Cap

Borehole depth as specified

Backfill with cutting from drill hole

250mm dia. API Steel/UPVC Casing

Cement grout in borehole annulus 6m from ground level

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
FOUR COMPARTMENT POR FLUSH LATRINE

TWO COMPARTMENT POUR FLUSH LATRINE
(MALE)

TWO COMPARTMENT POUR FLUSH LATRINE
(FEMALE)
250mm X 50mm thick mass concrete coping with plates
225mm X 225mm Thick hardwood fascia board covered with flat pan
Corrugated long span aluminium roofing sheet gauge 0.45mm
100mm DIA. PVC VENT PIPE
50mm X 100mm Treated H. WALL PLATE
50mm X 50mm Treated H.wood purlin @506mm Centres
50mm x 75mm Treated H.wood rafters
250mm X 400mm VITRIFIED WHITE WALL TILES LAID ON WALL AT 1200mm ABOVE FLOOR LEVEL
300mm X 300mm VITRIFIED ROUGH WHITE FLOOR TILES LAID ON TOILET FLOOR AND URINARY TROUGHS

SECTION A-A