



IOM International Organization for Migration

Duty Station : Maiduguri, Borno State, Nigeria
Position Title : Drainage Engineer
Type of appointment : Stand by partner (SBP)
Duration : six months

TERMS OF REFERENCE

Working under the overall supervision of the Chief of Mission and Head of Sub office/Emergency Coordinator; and the direct supervision of the WASH Program Manager, the Drainage engineer will provide his/her technical support for the planning, coordination and implementation of site planning, development and drainage works in North East Nigeria IOM Emergency Response, working closely with the IOM Drainage expert and Site Planner. In particular, the Engineer will:

1. Assist drainage and site experts in regard to collecting and analyzing data related to flood and drainage.
2. Conduct regular site visits to ensure in-depth understanding of the interior and exterior characteristics of camp and camp-like settings in North East Nigeria
3. Map critical flood-prone camps and camp-like settings and recommend short term and long term solutions.
4. Analyze hydraulic, hydrological and geological features of flood prone camps and camp like settings.
5. Design the hydraulic features of camps drainage system. During the design ensure that water will flow to the exterior drainage channel, river gorge or other appropriate final destination
6. Provide detailed information regarding the locations and design characteristics of culverts at both vehicle and pedestrian access points in the flood prone camps
7. Provide technical support for Drainage and Site experts to be able to advise the CCCM and WASH Sectors in regards to rainy season preparedness plan, flood mitigation and implementation of emergency programs in the camps and camp like settings
8. Consult communities and refer to state/national meteorological data to avoid areas likely to become marshy or waterlogged during the rainy season.
9. Provide inputs related to the design of drainage systems in site plans for new camps or camp expansions.
10. Submit detail work plan, site mapping activity, reports and work progress for WASH program manager.
11. Supervise, monitor and support field based drainage supervisors
12. Supervise the construction of drainage networks
13. Create a site plan, design and reports for flood mitigation interventions in AutoCAD, PDF and Microsoft Word, and present it to all relevant parties such as the WASH Program Manager
14. Perform other duties as may be assigned by the supervisor

Qualifications:

- **Education/Training:** University Degree in Civil Engineering; knowledge of flood modeling, drainage construction, hydraulic principles and site planning in humanitarian assistance.
- **Experience:** Minimum of 2 years of experience in the implementation of drainage/ hydraulic engineering or flood modeling or related projects preferably in the Humanitarian Field.
- **Skills:** Excellent knowledge of English; knowledge of relevant local language an advantage; proficient user of AutoCAD, GPS devices and surveying equipment; Knowledge of GIS advantageous; IT Literate; Organizational Skills; Accuracy; Ability to work with minimal supervision; Ability to work in a stressful and dynamic environment with limited resources.