

ToR Drilling Expert, ERU M40, Cox's Bazar

HYDROGEOLOGY

- Understand and interpret maps, geographical data, historical evidence and models to build up a picture of the groundwater regime in the working area, based on incomplete information
- Use software or equivalent methodology to model groundwater flow according to geological formations, surface water flow and man-made influence
- Support the design a suitable non-invasive underground investigation (resistivity or similar)
- Undertake field work and site visits for investigative and monitoring purposes

DRILLING and MANAGERIAL

- Design and commission boreholes, and sample and measure groundwater and surface water
- Setup a proper well log that keep all relevant information of the borehole
- Undertake environment assessments of groundwater abstraction
- Liaise with authorities and other organization and if possible with other hydrogeologists, hydrologists, engineers and other professionals in related fields
- Ensure compliance with environmental legislation
- Manage the borehole drilling projects and related contracts and contractors
- Identify suitable drilling sites
- Design safety measure to protect water supplies from pollution
- Conduct/oversee pumping tests to determine available flow rates from the bore(s)
- Investigate de-contaminating existing wells
- Training of local staff for on-going use and maintenance of equipment

WATER SCHEME

- Support the local engineer in the design and selection suitable sites for installation of distribution points
- Ensure safe and environmentally responsible workplace practice

An asset:

- Use of EPANET or equivalent software to design small scale water system
- Knowledge of pumps and their specifications
- Capable of writing reports technical and non-technical reports
- Work within health and safety guidelines
- Capability to testing water quality and interpretation of related data