



MRA/108/2012 02

23rd August 2012

TENDER FOR THE SUPPLY OF GROUNDWATER LEVEL MONITORING PROBES/EQUIPMENT FOR THE MORISO PROJECT

Question:

Shaft encoders can have 2 different operating principles:

- a) One in which the pulley/wheel is placed at the top and the cable holding the floater and counter weight are suspended all the way down (eg 200m) along the borehole
- b) one in which the pulley/wheel is lowered close to the water level and the cable holding the floater/counterweight is only a few meters long.

System (a) has typically the following disadvantages:

- (i) the borehole shaft is never straight thus the 200m suspended cable will be affected by friction with the borehole sides thus making it impossible to have an accurate reading for borehole depths beyond 50 -100m. This is an established fact and no manufacturer can guarantee accurate readings above 50m bore hole depth with this method.
- (ii) the pulley/wheel plus instrument have to be placed in a special installation.

1. Is it acceptable to offer a system with the pulley/wheel located at the top as described in (a)?
2. If the answer to above question is yes, do you need a confirmation from the manufacturer that accurate readings are possible for bore hole depths between 50 to 200m?

Reply:

1. Yes
2. Yes