

## Annex 4 - BILL OF QUANTITIES FOR DRILLING OF 1 BOREHOLES

| ITEM          | DESCRIPTION/SPECIFICATION  | UNIT     | Qty | RATE (USD) | AMOUNT (USD) |
|---------------|--|----------|-----|------------|--------------|
| <b>1.0</b>    | <b>PRELIMINARIES AND GENERAL</b>   |          |     |            |              |
| 1.1           | Mobilization and demobilization of contractor's crew and equipment   | sum      | 1   |            |              |
| 1.2           | Allow for Site Clearance   | sum      | 1   |            |              |
| 1.2           | Preparation and submission of borehole completion reports  | sum      | 1   |            |              |
| <b>Bill 1</b> | <b>SUB TOTAL 1</b>   |          |     |            |              |
| <b>2.0</b>    | <b>DRILLING AND WELL DEVELOPMENT</b>   |          |     |            |              |
| 2.1           | Shifting between sites(average Km)   | Km       | 15  |            |              |
| 2.2           | Clearing, setting up and dismantling of equipment at drilling sites  | sum      | 1   |            |              |
| 2.3           | Drilling by rotary (mud drilling) or DTH methods as instructed by the supervisor in soft formation (over burden) at 10" diameter bit from 0-200 m meter deep and installation & removal of 10" temporary casing. | m        | 200 |            |              |
| 2.5           | Soil sampling and storing of drill cutting at 2m intervals or instructed by the supervisor   | sum      | 1   |            |              |
| 2.6           | Well capping and installation of bottom plug   | nr       | 1   |            |              |
| 2.7           | Supply and installation of UPVC 6"ND screens of 3m length with ends threaded, male and female with thickness of 5mm.   | m        | 50  |            |              |
| 2.8           | Supply and installation of UPVC (5mm thickness) 6 "ND Plain casing 3m length with both ends threaded, male or female   | m        | 200 |            |              |
| 2.9           | Supply and installation of 50kg bags gravel pack f 2mm-6mm   | bags     | 80  |            |              |
| 2.10          | Supply and installation of inert backfill material   | sum      | 1   |            |              |
| 2.11          | Place 1m cement grouting on ditto  | sum      | 1   |            |              |
| 2.12          | Casting of sanitary seal   | Lump sum | 1   |            |              |
| 2.13          | Well development until water clears  | Hours    | 6   |            |              |
| <b>Bill 2</b> | <b>SUB TOTAL 2</b>   |          |     |            |              |
| <b>3.0</b>    | <b>TEST PUMPING AND RECOVERY</b>   |          |     |            |              |
| 3.1           | Movement between sites   | Km       | 15  |            |              |
| 3.2           | Pump installation at a depth recommended by the supervisor and removal   | lumpsum  | 1   |            |              |
| 3.3           | Pumping and measuring draw down  | hours    | 4   |            |              |
| 3.4           | Recovery monitoring  | hours    | 8   |            |              |
| <b>Bill 3</b> | <b>SUB TOTAL 3</b>   |          |     |            |              |

| ITEM                  | DESCRIPTION/SPECIFICATION  | UNIT        | Qty | RATE (USD) | AMOUNT (USD)      |
|-----------------------|--|-------------|-----|------------|-------------------|
| <b>4.0</b>            | <b>WATER QUALITY</b>   |             |     |            |                   |
| 4.1                   | Sample collection in sterilized one-liter bottles  | nr          | 3   |            |                   |
| 4.2                   | Water Quality Analysis and report by National Licensed laboratory<br>Bacteriological, Chemical and Physical parameters | nr          | 1   |            |                   |
| 4.3                   | Borehole disinfection as detail in specification   | nr          | 1   |            |                   |
| 4.4                   | Visibility   | Lump<br>sum | 1   |            |                   |
| <b>Bill 4</b>         | <b>SUB TOTAL 4</b>   |             |     |            |                   |
| <b>SUMMARY TO BoQ</b> |  |             |     |            |                   |
|                       |  |             |     |            | <b>AMOUNT USD</b> |
| Bill 1                | PRELIMINARIES AND GENERAL  |             |     |            |                   |
| Bill 2                | DRILLING AND WELL DEVELOPMENT  |             |     |            |                   |
| Bill 3                | TEST PUMPING AND RECOVERY  |             |     |            |                   |
| Bill 4                | WATER QUALITY  |             |     |            |                   |
|                       | <b>TOTAL FOR 01 BOREHOLE</b>   |             |     |            |                   |
|                       | <i>Include Tax Obligation</i>  |             |     |            |                   |
|                       | <i>Sub- Total for 1 Borehole</i>   |             |     |            |                   |
|                       | <b>GRAND TOTAL FOR SIX (06) BOREHOLES</b>  |             |     |            |                   |