


| TENDER FOR THE PROVISION OF SCADA & BMS MAINTENANCE<br>SERVICE AT THE ELIDZ |   |        |          |           | Cost Estimate |
|---|---|--------|----------|-----------|---------------|
| Item No   | Short Description   | Unit   | Quantity | Rate      | Total         |
|   | <b>SECTION A1 : ANNUAL CHARGES</b>  |        |          |           |               |
| <b>A1.1</b>   | <b>Annual Preliminary &amp; General</b>   |        |          |           |               |
| A1.1.1  | Provision of surety   | Yrs    | 1        | R         | R             |
| A1.1.2  | Provision of insurances   | Yrs    | 1        | R         | R             |
| A1.1.3  | Staff protective personal equipment   | Yrs    | 1        | R         | R             |
| A1.1.4  | Staff induction   | Yrs    | 1        | R         | R             |
| A1.1.5  | OHS compliance method statement   | Yrs    | 1        | R         | R             |
| A1.1.6  | CEMP compliance method statement  | Yrs    | 1        | R         | R             |
| A1.1.7  | Provision of Electronic Maintenance Manual  | Yrs    | 1        | R         | R             |
| <b>TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY</b>                        |   |        |          | Sub Total | <b>R</b>      |
|   | <b>SECTION A2 : MONTHLY CHARGES</b>   |        |          |           |               |
| <b>A1.2</b>   | <b>Monthly Preliminary &amp; General</b>  |        |          |           |               |
| A1.2.1  | Provide transport, tools & equipment for the suitably qualified personnel to be on site for 14 days per month | Months | 12       | R         | R             |
| A1.2.2  | Monthly overheads & administration charges  | Months | 12       | R         | R             |
| <b>TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY</b>                        |   |        |          | Sub Total | <b>R</b>      |

| Item No  | Short Description  | Unit   | Quantity | Rate         | Total        |
|--|--|--------|----------|--------------|--------------|
| <b>B1</b>  | <b>SECTION B1 : ROUTINE MAINTENANCE</b>  |        |          |              |              |
|  | <b>Routine maintenance (inclusive of all labour, equipment, transport, and all overhead costs)</b>   |        |          |              |              |
| B1.1   | Provide qualified personnel for 14 days per month on specified days defined by ELIDZ - to conduct routine maintenance on SCADA and BMS systems, clear all alarms,rectify system & comms faults ,update displays, create reports , write programmes as and when required, including all field survey and cleaning activities. | Months | 12       | R            | R            |
| B1.2   | Provide qualified personnel for the provision of technical support, meter reading, account compilation and reconciliation reporting of AMR System for complete ELIDZ network, including Zone1A, 1B, 1C, 1D, 1E, 1F, Fort Jackson and Berlin  | Sum    | 1        | R 360 000.00 | R 360 000.00 |
| B1.3   | Profit and Attendance - bid % of the sum on B1.2   |        | %        |              | R            |
| <b>TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY</b> |  |        |          | Sub Total    | <b>R</b>     |

| Item No  | Short Description  | Unit | Quantity | Supply +Install<br>Rate | Total |
|--|--|------|----------|-------------------------|-------|
|  | <b>Supply rates - Don't add the total for this section to the final total amount</b> |      |          |                         |       |
| <b>1</b>   | <b>General maintenance items inclusive of supply and installation.</b>               |      |          |                         |       |
| <b>1.1</b>   | <b>SCADA</b>   |      |          |                         |       |
| 1.1.1  | PSU - SSE 7Amp   | No   | 1        | R                       | R     |
| 1.1.2  | PSU - AD-155A 14v 10.5 amp   | No   | 1        | R                       | R     |
| 1.1.3  | Battery 18AH - Gell Cell   | No   | 1        | R                       | R     |
| 1.1.4  | RTU12- SSE   | No   | 1        | R                       | R     |
| 1.1.5  | MIO - SSE  | No   | 1        | R                       | R     |
| 1.1.6  | DIN 24 - SSE   | No   | 1        | R                       | R     |
| 1.1.7  | MOXA 5110  | No   | 1        | R                       | R     |
| 1.1.8  | MOXA 5230  | No   | 1        | R                       | R     |
| 1.1.9  | Transducer - Tech 5m Submersible pressure  | No   | 1        | R                       | R     |
| <b>1.2</b>   | <b>BMS</b>   |      |          |                         |       |
| 1.2.1  | Beck off Controller CPU CX9010 -1001 K Bus   | No   | 1        | R                       | R     |
| 1.2.2  | PLC Expansion Module KL6811 / DALI   | No   | 1        | R                       | R     |
| 1.2.3  | Moxa IO logic E1212 - 8DI/8DIO 2 Port Switch   | No   | 1        | R                       | R     |
| 1.2.4  | Moxa EDS-G512  | No   | 1        | R                       | R     |
| 1.2.5  | MOXA SFP - 1GLxLC  | No   | 1        | R                       | R     |
| 1.2.6  | 4 Channel DIO expansion card   | No   | 1        | R                       | R     |
| 1.2.7  | 8 Channel DIO expansion card   | No   | 1        | R                       | R     |
| 1.2.8  | 24 Volt Power Supplies - DRP - 240 - 24 10Amp  | No   | 1        | R                       | R     |
| 1.2.9  | 12 Volt Power Supplies- MDR - 60 -12 1.8Amp  | No   | 1        | R                       | R     |
| 1.2.10   | ACDC ME554G Enclosure  | No   | 1        | R                       | R     |
| <b>1.3</b>   | <b>AMR Metering</b>  |      |          |                         |       |
| 1.3.1  | Elster A1700 Electricity Meter   | No   | 1        | R                       | R     |
| 1.3.2  | Elster A1140 Electricity Meter   | No   | 1        | R                       | R     |
| 1.3.3  | Elster AS230 Electricity Meter with built in comms                                   | No   | 1        | R                       | R     |
| 1.3.4  | Rs 232 Module  | No   | 1        | R                       | R     |
| 1.3.5  | ELSTER LAN Module  | No   | 1        | R                       | R     |
| 1.3.6  | Kocos Modem complete antennae (to order)   | No   | 1        | R                       | R     |
| 1.3.7  | Antennae (wireless Lan) Airaya 5.4 to 5.7 GHz  | No   | 1        | R                       | R     |
| <b>TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY</b> |  |      |          |                         |       |

| Item No  | Short Description   | Unit                          | Quantity | Rate         | Total           |
|--|---|-------------------------------|----------|--------------|-----------------|
|  | SECTION C1 : PROVISIONAL SUMS   |                               |          |              |                 |
| C1.1   | Call out (extra over cost inclusive of travelling, labour, overheads, etc) as per clause 2.3.15 (b) |                               |          |              |                 |
| C1.1.1   | Emergency response  | No                            | 200      | R            | R               |
| C1.1.2   | Urgent response   | No                            | 200      | R            | R               |
| C1.1.3   | Routine response  | No                            | 200      | R            | R               |
| C1.2   | Labour additional to scheduled works  |                               |          |              |                 |
| C1.2.1   | Senior Technician   | Hrs                           | 400      | R            | R               |
| C1.2.2   | Technician  | Hrs                           | 400      | R            | R               |
| C1.3   | Travelling additional to scheduled works  |                               |          |              |                 |
| C1.3.1   | LDV including operating costs   | Km                            | 1000     | R            | R               |
| C1.4   | Provisional Allowance for replacement equipment and Licencing                                       |                               |          |              |                 |
| C1.4.1   | Allowance is made for replacement of unservicable equipment, as directed by the engineer            | Sum                           | 1        | R 500 000.00 | R 500 000.00    |
| C1.4.2   | Profit and Attendance - Bid % of the sum on C1.4.1  | %                             |          | %            | R               |
| TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY  |   |                               |          | Sub Total    | R               |
| TENDER FOR THE PROVISION OF SCADA & BMS MAINTENANCE SERVICE AT THE ELIDZ                       |   |                               |          |              |                 |
| <div></div> |   |                               |          |              |                 |
| SUMMARY  |   |                               |          |              |                 |
|  | SECTION A1 : ANNUAL CHARGES   |                               |          |              | R               |
|  | SECTION A2 : MONTHLY CHARGES  |                               |          |              | R               |
|  | SECTION B1 : ROUTINE MAINTENANCE  |                               |          |              | R               |
|  | SECTION C1 : PROVISIONAL SUMS   |                               |          |              | R               |
|  |   |                               |          | Escalation % | Total per Terms |
|  | Net Total of Tender for year 1  | Total for Sec A1, A2, B1 & C1 |          | 0%           | R               |
|  | Escalation % tendered for year 2  |                               |          | %            | R               |
|  | Escalation % tendered for year 3  |                               |          | %            | R               |
|  | Net Total of Tender for 3 year term   |                               |          |              | R               |
|  | VAT 15%   |                               |          |              | R               |
|  | GROSS TOTAL OF TENDER   |                               |          |              | R               |
| (Carried to Form of Offer and Acceptance)  |   |                               |          |              |                 |

Name of Tenderer : .....

Signed on behalf  
of Tenderer : .....

Dated : .....