**PRICING DATA Price List**

**The purposes of evaluation; Sentech request bidders to use RoE of R15,00 - $1,00 for evaluation purposes. Bidders must clearly indicate in their quote the line items that have an RoE impact.**

**Provisional and General**

| **#** | **Description****NOTE: All items to be designed, supplied, installed & commissioned as applicable. Items not covered by the schedule must be listed below. If quantities are zero, then provide rates only.** | **Unit** | **Qty** | **R/Unit** | **R Total** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 1 | **CONTRACTORS FIXED CHARGES** |  |  |  |  |
|  |  |  |  |  |  |
| 1.1 | Design, documentation & professional certification | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.2 | Transport & logistics to site | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.3 | Establishment of construction site facilities | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.4 | Site inspection before contract commences | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.5 | Compliance with OHSACT requirements | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.6 | Compliance with Environmental requirements | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.7 | Factory acceptance tests for Inverters only in South Africa | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.8 | Site acceptance tests | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.9 | Testing & commissioning  | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.10 | Preparation of 4 sets of O&M manuals plus electronic version | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.11 | Operation and management training of Employer staff (1 day) | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.12 | Operation and management contract (12 months from Final completion)) | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.13 | Cost of disposal at the end of the plant's 25 years lifespan (at today's prices) |  |  |  |  |
|  |  |  |  |  |  |
| 1.14 | Cost of remediation of the site at end of life (at today’s price) |  |  |  |  |
|  |  |  |  |  |  |
| 1.15 | Risk assessment and report for lightning protection design | Item | 1 |  |  |
|  |  |  |  |  |  |
| 1.16 | Performance guarantee | item | 1 |  |  |
|  |  |  |  |  |  |
| 1.17 | Public Liability risk insurance | item | 1 |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 2 | **CONTRACTORS TIME RELATED ITEMS** |  |  |  |  |
|  |  |  |  |  |  |
| 2.1 | Contractual requirements | Item | 1 |  |  |
|  |  |  |  |  |  |
| 2.2 | Operation/maintenance of facilities/site | Item | 1 |  |  |
|  |  |  |  |  |  |
| 2.3 | Project Management & Works Supervision | Item | 1 |  |  |
|  |  |  |  |  |  |
| 2.4 | HSE Supervision | Item | 1 |  |  |
|  |  |  |  |  |  |
| 2.5 | Accommodation | Item | 1 |  |  |
|  |  |  |  |  |  |
| 2.6 | Company and Head Office overhead costs | Item | 1 |  |  |
|  |  |  |  |  |  |
| 3 | **All other items deemed necessary to complete the works. *(Specify):*** |  |  |  |  |
|  |  |  |  |  |  |
| 3.1 |  |  |  |  |  |
| 3.2 |  |  |  |  |  |
|  |  |  |  |  |  |
|  **Total excluding VAT carried forward** |  |

**PV Plant**

| **#** | **Description****NOTE: all items to be designed, supplied, installed & commissioned as applicable. Items not covered by the schedule must be listed below. If quantities are zero, then provide rates only. Rates must be supplied with site conditions in mind and as per the requirements in the scope of works** | **Unit** | **Qty** | **R/Unit** | **R Total** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| 1 | **PV PLANT** |  |  |  |  |
|  |  |  |  |  |  |
| 1.1 | Site clearance | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.2 | Plant related Civil Works  | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.3.1 | Supply: Photovoltaic modules | QTY |  |  |  |
|  |  |  |  |  |  |
| 1.3.2 | Install: Photovoltaic modules | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.4.1 | Supply: Array Structure | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.4.2 | Install: Array Structure | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.5.1 | Supply: Inverters | Qty |  |  |  |
|  |  |  |  |  |  |
| 1.5.2 | Install: Inverters | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.6.1 | Supply: DC works and cabling | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.6.2 | Install DC works and cabling | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.7.1 | Supply: AC reticulation | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.7.2 | Install: AC reticulation | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.7.3 | Supply AC DB as required at all relevant POC’s (Incl SPD’s) | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.7.4 | Install AC DB as required at all relevant POC’s | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.8.1 | Supply: Earthing and bonding system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.8.2 | Install: Earthing and bonding system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.9.1 | Supply: Lightning protection system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.9.2 | Install: Lightning protection system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.10.1 | Supply: Control and management system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.10.2 | Install: Control and management system | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.11 | Supply: Monitoring meter and CT’s for the prevention of feeding onto the grid | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.12 | Install: Monitoring meter and CT’s for the prevention of feeding onto the grid | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.13 | Supply: Control for diesel saving when generator is running | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.14 | Install: Control for diesel saving when generator is running | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.15 | Labelling and notices | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.16 | Spare PV Modules | each | 5 |  |  |
|  |  |  |  |  |  |
| 1.17 | Rigging of materials  | each | 1 |  |  |
|  |  |  |  |  |  |
| 1.18 | System monitoring licence for lifespan of PV system (25 years) | each | 1 |  |  |
|  |  |  |  |  |  |
| 1.19 | Washing of entire system panels at least once off during 12-month maintenance period (P90 to be considered) | each | 1 |  |  |
|  |  |  |  |  |  |
| 1.20 | Supply of materials for the provision of water points | each | 1 |  |  |
|  |  |  |  |  |  |
| 1.21 | Installation of water points | each | 1 |  |  |
|  |  |  |  |  |  |
| 1.22 | Supply: 19mm crushed stone for under entire PV structure | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.23 | Install: 19mm crushed stone under entire PV structure | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.24 | Supply: clearvu with spikes on top (or similar) fence around the PV installation (i.e. high security level), minimum height to be 2,2m from ground level. | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.25 | Install: Clearvu (or similar) fence around the PV installation | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.26 | Supply: electric fence with energizer (4 wire) | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.27 | Install: electric fence with energizer (4 wire) | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.28 | Supply: Razor Wire Barbed Tape Concertina | sum | 1 |  |  |
|  |  |  |  |  |  |
| 1.29 | Install: Razor Wire Barbed Tape Concertina | sum | 1 |  |  |
|  |  |  |  |  |  |
| 2 | **All other items deemed necessary to complete the works. *(Specify):*** |  |  |  |  |
|  |  |  |  |  |  |
| 2.1 |  All equipment and materials linked to ROE needs to be priced based on R15.00 to 1$ US. Please specify items linked to ROE and the corresponding value based on R15.00 to 1$ US |  |  |  |  |
| 2.2 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  **Total excluding VAT carried forward** |  |

**Total**

| **Total** | **Description** |  |  | **Total** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| **A** | PROVISIONAL AND GENERAL |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **B** | PV PLANT |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 1 | **SUB TOTAL 1 (Items A + B)** |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |
| 2 | **PROVISIONAL SUM ITEMS** |  |  |  |  |
|  |  |  |  |  |  |
| 2.1 | SCADA integration |  |  | **R30 000** |
| 2.2 | Allowance for Soil resistivity test |  |  | **R30 000** |  |
| 2.3 |   |  |  |  |  |
|  |  |  |  |  |
| 2.4 | ADD TOTAL OF PROVISIONAL SUM ITEMS (Items 2.1 to 2.2) |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 2.5 | ADD CONTRACTOR'S MARK-UP ON TOTAL OF PROVISIONAL SUM (Item 2.4) |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 3 | **SUB TOTAL 2 (Items 1 + 2.4 + 2.5)** |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 4 | **SUB TOTAL 3 (Items 3 + 4)** |  |  |  |
|  |  |  |  |  |
| 5 | **CONTINGENCY AMOUNT 10%** |  |  |  |
|  |  |  |  |  |
| 6 | **ADD 15 % VAT** |  |  |  |
|  |  |  |  |  |
| 7 | **TENDER TOTAL INCLUDING VAT (Items 5 + 6)** |  |  |  |
|  |  |  |  |  |

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