Part 3

**SECTION - III**

**PRICE SCHEDULE AND RATES FOR EPC CONTRACT**

### The Summary of the SOR as per the quoted prices in the detail Price Schedule formats:

**SUMMARY PRICE SCHEDULE/ SUMMARY SCHEDULE OF RATES - ( SOR-S)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL** | **SOR-REF** | **SOR DESCRIPTION** | **TOTAL AS PER**  **SOR’s** | |
|  |  |  | **Total**  **Foreign currency** | **Total**  **Indian currency** |
| **A** | **AS PER**  **SOR-1** | **FOR MAIN LSTK-EPC WORK** |  |  |
| **B** | **AS PER**  **SOR-2** | **3 MONTHS INITIAL OPERATION ALONG WITH 1 YEAR MAINTENANCE SERVICE** |  |  |
| **C** | **AS PER**  **SOR-3** | **Comprehensive Long Term Maintenance Service (LTMS) of Gas Engine Generator Plant for 3 (three) years** |  |  |
| **D** | **AS PER**  **SOR-4** | **GAS ENGINE SPARES REQUIRED UPTO 1,00,000 RHRS FOR EACH GAS ENGINE** |  |  |
| **TOTAL EST. CONTRACT VALUE = A+B+C+D** | | |  |  |
| **GST CHARGES FOR THE SERVICES** | | |  |  |
| **TOTAL EST. CONTRACT VALUE INCLUDING QUOTED GST CHARGES** | | |  |  |

1. Bidder to quote the applicable rate of GST along with SAC code.

### 1.00 The Bidders shall quote the detail price in the following Price Schedule format:

**PRICE SCHEDULE/ SCHEDULE OF RATES - 1 ( SOR-1)**

**FOR MAIN LSTK-EPC WORK**

| **Sl. No.** | **Item description** | **Unit** | **Qty.** | **Rate** | **Total**  **Foreign currency** | **Total**  **Indian currency** |
| --- | --- | --- | --- | --- | --- | --- |
|  | Bidder’s total lump sum proposal price for design, engineering, manufacturer, testing, inspection by OIL’s Engineers at manufacturer’s works, packing for transport, ocean transportation & marine insurance, custom’s clearance, inland transportation up to site, inland transit insurance, unloading, storage at site, in plant transportation, complete civil design & construction, structural & architectural work, complete services of erection, testing & commissioning, supply of commissioning spares, supply of special tools & tackles, Training for OIL’ Engineers at Manufacturers’ works or at Manufacturer’s recommended training center on Gas Engine , controls & others (excluding cost of Engineer’s to & fro travel & daily expenses), training for OIL Engineers at site for O&M, acceptance/ performance guarantee tests at site for three (03) number of Gas Engine Generators Power plant with each Gas Engine Generator set of Net exportable Electrical power output of **minimum 8.2 MW** , complete with all associated equipment & accessories (Price to be inclusive of all taxes & duties) |  |  |  |  |  |
|  | Break down of total lump sum proposal price indicated in item I) above |  |  |  |  |  |
|  | Supply of all items as per the following breakdown: |  |  |  |  |  |
| **10** | **Supply of Gas Engine Generator unit:**  Design, Engineering, Manufacture, Fabrication, Assembly, Testing at manufacturer’s work, Packing for transport & delivery, CIF port of shipment/ FOR station for dispatch of three (03) number of Gas Engine Generator units each with Net exportable Electrical power output of **minimum 8.2 MW** with air cooled electric generator, skid & enclosure, inlet and exhaust ducts with silencers, standard control and starting systems, generator accessories including phase & neutral side cubicles, protective Relay panels, etc. | LSM | 01 |  |  |  |
| **20** | Supply of Gas Filtration plant :  Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch Gas Filtration equipment . | LSM | 01 |  |  |  |
| **30** | Supply of Plant water system Equipment:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch** **of Plant water system equipment covering, Service water and Potable water distribution system etc., DM/RO Plant if applicable** | LSM | 01 |  |  |  |
| **40** | Supply of Plant Compressed Air system Equipment:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch compressed air system equipment covering Air compressors, Air Dryers, Air receivers etc.** | LSM | 01 |  |  |  |
| **50** | Supply of Fire Protection system (Extension) Equipment:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch, motor driven & diesel driven Fire main Pumps and Jockey pumps (if required for augmentation), Hydrant network, , Fire Detection and Alarm system, Clean agent based fire protection system, Gas detectors etc.** | LSM | 01 |  |  |  |
| **60** | Supply of AC & Ventilation system Equipment:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch covering Air conditioners and Ventilation units** | LSM | 01 |  |  |  |
| **70** | Supply of Cranes & Hoists:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch EOT cranes in GEG building and Store Electric / Manual hoists etc.** | LSM | 01 |  |  |  |
| **80** | Supply of all other Mechanical items:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch balance Mechanical equipment including piping, Waste Water disposal system Nitrogen distribution system etc** | LSM | 01 |  |  |  |
| **90** | Supply of Generator Terminal Cubicles, Neutral Grounding Transformer & NGR System:  Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport & delivery, CIF port of shipment/FOR station for dispatch Generator Terminal Cubicles & Neutral Grounding Transformer and NGR system as per specification. | LSM | 01 |  |  |  |
| **100** | Supply of 11KV Switchgear:  Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch 11 KV Switchgear including Generator Neutral Breaker, HT Bus Duct | LSM | 01 |  |  |  |
| **110** | Supply of 11/11.5KV Power Transformer:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch 11/11.5 KV Power Transformers** | Nos | 3 |  |  |  |
| **120** | Supply of Protection Relay Panels:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch Power Transformer protection panel, Bus bar protection panel for 11kV Switchgear, Synchronizing Panel, Digital Fault Recorder, Load Shedding and Generation Management System, etc. as per specification.** | LSM | 1 |  |  |  |
| **130** | Supply of LT Electrical Equipment :  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch 415V Switchgears, LT Transformers, LT Bus Duct, MCC, ACDB & DCDB etc as per specification.** | LSM | 1 |  |  |  |
| **140** | Supply of Battery & Battery Charger and UPS system:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch battery & battery charger and UPS system.** | LSM | 1 |  |  |  |
| **150** | Supply of Black Start Diesel Generator:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/ FOR station for dispatch complete DG unit with AMF Panel** | LSM | 1 |  |  |  |
| **160** | Supply of all other Electrical items:  **Design, engineering, manufacture, fabrication, assembly, testing at manufacturer’s work, properly packed for transport and delivery, CIF port of shipment/FOR station for dispatch all other Electrical items including Electric Motors and Motor Actuators, Miscellaneous Panels, Plant Illumination and Intercommunication system, Grounding & Lightning protection system, Cable Trays & accessories, Power & Control Cables etc as per specification.** | LSM | 1 |  |  |  |
| **170** | Control & Instrument items including the following:   1. Control system for GEG 2. Distributed Control System including panels, EWS,OWS, printers , LVS, network switches, etc. 3. Emergency Shutdown PLC 4. Field instruments including transmitter, gauge, analyzers, etc. 5. Gas Detection system 6. CCTV 7. Erection Hardware 8. Instrument cable 9. Any other item not specifically mentioned but necessary for implementation | LSM | 1 |  |  |  |
| **180** | Supply of any other items, not covered above for safe and reliable operation of GEG plant complete in all respect | LSM | 1 |  |  |  |
| **190** | Supply of civil construction items and other civil, structural and architectural items | LSM | 1 |  |  |  |
|  | **Applicable rate of Customs duty** | | | |  |  |
|  | LSTK-EPC SERVICES: |  |  |  |  |  |
| 200 | (a) Unloading, storage at site, in-plant transportation, complete erection, testing & commissioning as per mile stones inclusive of performance guarantee testing at site of all individual equipment of the Gas engine Power plant; (b) Reliability run, achieving commercial operation, performance guarantee testing at site as per guaranteed parameters in accordance with contract agreement (related to determination of LD etc.), acceptance & taking over of the following:   1. Gas Engine Generators   b) Complete Gas Engine Generation Plant | LSM | 1 |  |  |  |
| 210 | Complete civil structural & architectural design, drawing & construction | LSM | 1 |  |  |  |
| 220 | Training of OIL Engineers at OEM works for Gas Engine Generators & associated Controls | LSM | 1 |  |  |  |
| 230 | Training to Company (OIL) Engineers at site on plant O&M | LSM | 1 |  |  |  |
|  | **TOTAL OF SOR-1 - FOR MAIN LSTK-EPC WORK** | | | |  |  |

**PRICE SCHEDULE/ SCHEDULE OF RATES - 2 ( SOR-2)**

**3 MONTHS INITIAL OPERATION ALONG WITH 1 YEAR MAINTENANCE SERVICE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Item description** | **Unit** | **Qty.** | **Rate** | **Total**  **Foreign currency** | **Total**  **Indian currency** |
|  | 3 Months initial Operation along with 1 Year Maintenance Service during warranty period, including all materials and consumables for GEG plant (except fuel), after Plant Commissioning |  |  |  |  |  |
| 10 | Maintenance Charge for **GEG NO 1**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 4700 |  |  |  |
| 20 | Maintenance Charge for **GEG NO 2**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 4700 | Same Value will be auto populated as entered for (SOR-2) Item 10 |  |  |
| 30 | Maintenance Charge for **GEG NO 3**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 4700 | Same Value will be auto populated as entered for (SOR-2) Item 10 |  |  |
| 40 | GEG Plant maintenance Monthly Standing Charge | Month | 12 | (Bidder’s Rate against this item NOT TO EXCEED: 20% of Rate against (SOR-2) item 10 x 24 Hrs x 30 days) |  |  |
| 50 | Initial Operation of Gas Engine Generator plant, post **Plant** Commissioning | Months | 3 |  |  |  |
|  | **TOTAL OF SOR-2 : 3 MONTHS INITIAL OPERATION ALONG WITH 1 YEAR MAINTENANCE SERVICE** | | | |  |  |

**PRICE SCHEDULE/ SCHEDULE OF RATES - 3 ( SOR-3)**

**Comprehensive Long Term Maintenance Service (LTMS) of Gas Engine Generator Plant for 3 (three) years**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Item description** | **Unit** | **Qty.** | **Rate** | **Total**  **Foreign currency** | **Total**  **Indian currency** |
|  | Comprehensive Long Term Maintenance Service (LTMS) of Gas Engine Generator Plant for 3 (three) years, including all spares and consumables for GEG plant (except fuel), after completion of 1 (one) Year Warranty |  |  |  |  |  |
| 10 | Maintenance Charge for **GEG NO 1**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 14,100 |  |  |  |
| 20 | Maintenance Charge for **GEG NO 2**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 14,100 | Same Value will be auto populated as entered for (SOR-3) Item 10 |  |  |
| 30 | Maintenance Charge for **GEG NO 3**, Considering an operational philosophy of 2 Running + 1 Standby, subject to Unit availability >= 90% and Plant availability >= 99.9% | HRS | 14,100 | Same Value will be auto populated as entered for (SOR-3) Item 10 |  |  |
| 40 | GEG Plant maintenance Monthly Standing Charge | Month | 36 | (Bidder’s Rate against this item NOT TO EXCEED: 20% of Rate against (SOR-3) item 10 x 24 Hrs x 30 days) |  |  |
|  | **TOTAL OF SOR-3 : Comprehensive Long Term Maintenance Service (LTMS) of Gas Engine Generator Plant for 3 (three) years** | | | |  |  |

**Notes for SOR-1, SOR-2 & SOR-3:**

1. The quoted rate for supply items should be CIF price but excluding Customs Duty and GST. Customs Duty (if applicable) to be quoted in the specific space provided. Bidder to quote the applicable rate of GST along with SAC code in the SOR-Summary.
2. **SOR-1 for *Main LSTK-EPC work*** *(Comprising of two broad groups of Supply & Services)*
3. **SOR-2 for 3 Months initial Operation along with 1 Year Maintenance Service during warranty period, including all materials and consumables for GEG plant (except fuel), after Plant Commissioning**
4. **SOR-3 for Comprehensive Long Term Maintenance Service (LTMS) of Gas Engine Generator Plant for three years (3), including all spares and consumables for GEG plant (except fuel), after completion of 1 (one) Year Warranty**

**PRICE SCHEDULE/ SCHEDULE OF RATES - 4 ( SOR-4)**

**GAS ENGINE SPARES REQUIRED UPTO 1,00,000 RHRS FOR EACH GAS ENGINE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Item description** | Unit | Qty. | Rate | Total  Foreign currency | Total  Indian currency |
| **10** | **Gas Engine Spares (including all the consumables) required upto 1,00,000 RHRS for each Gas Engine** (*post the period covered under SOR-2 and SOR-3*), as declared by the OEM based on GEG running hours**.** | LSM | 03 |  |  |  |
|  | **Applicable rate of Customs duty** |  |  |  |  |  |
|  | **TOTAL OF SOR-4 : GAS ENGINE SPARES REQUIRED UPTO 1,00,000 RHRS FOR EACH GAS ENGINE** | | | |  |  |

**Notes for SOR-4:**

1. The quoted rate should be CIF rate but excluding Customs Duty and GST. Bidder to quote the applicable Customs Duty in the specific field. Applicable rate of GST along with SAC code are to be provided in the SOr-Summary.
2. The price quoted against “**Gas Engine Spares** (**including all the consumables**) **required upto 1,00,000 RHRS for each Gas Engine**” under SOR-4 shall be duly substantiated with a detailed list as per OEM’s Engine Maintenance Schedule (Containing Item/ Kit Description, Part Number, Quantity required and Unit/Kit rate).
3. This detailed list will mandatorily include all the consumables (e.g lube oil replacement, filters etc) recommended & vetted by Engine OEM for 1,00,000 RHRS.
4. The price quoted against SOR-4 shall also additionally include the price of **spares required for at least one major overhaul.**
5. The **quoted rates** in the detailed spares list **shall be duly endorsed by the OEM**.
6. Additionally, the Bidder shall furnish an unpriced undertaking, along with the Technical Bid, from the OEM that the spares list (including all the consumables) furnished is complete and exhaustive for the stipulated running hours of each engine and no additional spares & consumables will be required upto 1,00,000 engine running hours.
7. The rates quoted towards the mandatory spares will be valid for next 25 years from the date of award of contract.