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| **COPYRIGHT AND CONFIDENTIAL**  The information on this document is the property of  **BHARAT HEAVY ELECTRICALS LIMITED,**  It must not be used directly or indirectly in any way detrimental to the interest of the company. | **SPECIFICATION FOR PRE-BID TIE UP**  **WITH**  **“CFBC BOILER SUPPLIER”**  **FOR CAPTIVE POWER PLANT (PACKAGE-9) AT RAJASTHAN REFINERY PROJECT OF HRRL**  **(PACHPADRA , BARMER, RAJASTHAN, INDIA)** |

1. **Introduction:**

HPCL Rajasthan Refinery Limited (herein after referred to as “Customer”) is a joint venture company between HPCL & Govt. of Rajasthan. HRRL is setting up a grass-root Refinery cum Petrochemical Complex at Pachpadra Tehsil in Barmer District of Rajasthan-India. HPCL-Rajasthan Refinery Limited (HRRL) is setting up a 9.0 MMTPA grass root refinery & 1.0 MMTPA petrochemical complex in Barmer district of Rajasthan.

HRRL has engaged M/s. Engineers India Limited(EIL) as their Project Management Consultant (herein after referred to as “PMC”) for the project which shall be executed on Lump Sum Turnkey Basis. Intent of this document is to broadly summarize the scope of work / services however Sub Contractor (herein after referred to as “CFBC Boiler Supplier”) shall refer the detailed scope of work /services defined elsewhere in the ‘Bidding Document’ which shall be complied by the CFBC Boiler Supplier.

Captive Power Plant comprises of units for steam and power generation system, along with associated facilities. The Captive Power Plant (CPP) of HRRL Project shall be designed to meet, besides internal requirements of the package, the steam required for the Refinery & petrochemical Complex. Power required by the Refinery & petrochemical Complex shall be met through CPP & external electrical grid

besides internal requirements of the package.

1. **Intent of Specification**

Four (4) numbers Petroleum coke fired CFBC Boilers of minimum 290 TPH Capacity, complete with accessories and auxiliaries. Refer EIL Technical Specification (Design Basis/Philosophy CFBC Boiler & Material handling System-**B224-511-02-43-DB-02 Rev-0**) for more information regarding capacity of CFBC Boiler.

1. **Scope of work [Supply & Services] of “CFBC Boiler Supplier”:**

The scope of work of “CFBC Boiler Supplier” indicating **Supply & Services** is listed below:-

1. **Scope during Pre bid stage:**

**A.1** Complete Turn key package including Project Management, Process/Thermal / Hydraulic/Mechanical/Structural/Electrical design, engineering, procurement of raw materials and bought outs, manufacture, fabrication, assembly in extensive modular form, inspection, test, painting, lining / insulation, supply, packing & forwarding, transportation up to actual site premises, storage at site, erection / installation, site handling including all machineries, lifting arrangement, jigs / fixtures, tools & tackles, site assemble, erection/installation, site testing, pre-commissioning, commissioning, reliability test, Performance Guarantee Testing Run (PGTR) on single point responsibility basis for the 4 nos. CFBC Boiler. “CFBC Boiler Supplier” will prepare and submit offer for the above identified scope and as per scope division (Attached as **Annexure-1**) to BHEL for consolidation of offer. All the requirements stipulated in the Tender Specification, Replies to Pre bid queries, subsequent amendments, Clarifications etc issued by M/s EIL / BHEL(from date of issue of Tender to date of Bid submission by BHEL to EIL) shall be met by CFBC boiler vendor

**A.2 Pre-Bid Engineering services by “CFBC Boiler Supplier” (During bid submission by BHEL to Customer):**

1. Support BHEL for Pre-bid engineering of the CPP plant by providing technical inputs for:
   1. Design of Balance of Plant Equipment/system like Material Handling equipment, Compressed Air system, Auxiliary Cooling water system etc.
   2. Electrical Load List (Normal, Emergency, DC, UPS etc), Cable tray requirement from Boiler 1st coloumn to Switchgear room etc.,
   3. DCS (I/O List for Control)

Based on the above, preparation of detailed BOQ and cost estimation for BOP portion will be done by BHEL.

1. Support BHEL for Technical closure of bid with customer.
2. Support in optimization of Boiler Parameters to minimize technical loading.

**A.3** Execute a MoU along with BHEL in the prescribed format attached as **Annexure – 5** which is to be submitted to end customer along with technical offer.Scope & responsibilities mentioned in MoU shall be adhered to by CFBC Boiler Supplier without any deviation.

1. **Scope of “CFBC Boiler Supplier” during Project Execution:**
2. Design, Engineering, Manufacturing, Supply, Testing, Packing and Forwarding, Transportation of CFBC boiler on **Turnkey basis with back-to-back arrangement**. All the requirements stipulated in the Tender Specification, Replies to Pre bid queries, subsequent amendments, Clarifications etc issued by M/s EIL / BHEL(from date of issue of Tender to date of Handing over of the Plant) shall be met by CFBC boiler vendor However, major equipment in CFBC boiler vendor’s scope is indicated below for reference.
   1. Complete boiler with combustion control and monitoring system
   2. All boiler auxiliaries including FD Fans, ID Fans, Air Pre-heater, air & flue gas duct etc.
   3. Boiler blow down system
   4. HP Chemical dosing system for boiler drum
   5. All consumables like lube oil, Chemical for etc. in entire Boiler Island for first fill and required for operation & maintenance of Six(6) months after Commissioning .
   6. Surface Preparation and Painting of supplied items etc.
   7. Electricals for Boiler which includes MCCs, Cables, Cable Trays, Earthing, lightning protection etc.,
3. Engineering support for design / procurement of the following equipment / systems by BHEL:
4. Material Handling System, Compressed Air system
5. Feed control station for boiler etc.
6. Upstream Electrical network
7. Resolving punch list /contract closing issues pertaining to systems / equipment supplied by boiler OEM.
8. Any equipment / system related to Boiler & auxiliaries and feed to the plant which is required for completion of project as per EIL specification but is not covered in Scope Matrix between BHEL and “CFBC Boiler Supplier” shall be in scope of “CFBC Boiler Supplier”. Any clarification/ deviation on the scope matrix shall be specifically highlighted by “CFBC Boiler Supplier”.
9. **Services provided by BHEL to CFBC Boiler Supplier:**
10. BHEL will provide the following data, systems / equipment / facilities,
11. Project information
12. Technical requirements of Boiler (scope of supply, guarantee schedule along with LD and other condition, plant layout etc. required for boiler design)
13. BHEL will provide following utilities at one point near Boiler as per **Annexure-2.**

(further distribution within boiler area shall be by boiler OEM):

1. Pet Coke
2. Start-up fuel/ LDO / NG
3. DM water
4. Feed water
5. Cooling water [supply & return]
6. Instrument Air
7. Service Air
8. Nitrogen if required
9. Service Water
10. Potable water etc.
11. Power for feeding Boiler auxiliary loads (bulk feeders)
12. Fire Protection system for boiler area
13. **Scope matrix between BHEL and “CFBC Boiler Supplier”:**

**Refer Annexure-1.**

1. **Exclusions for CFBC Supplier:**

**Refer Annexure-3**

1. **FUNCTIONAL GUARANTEES:-**

**“CFBC BOILER SUPPLIER” to prove the Functional Guarantee as per EIL Specification Doc. No. DC/B224-511-PG-T-9509/3007 &** “B224-511-02-43-LPC-01” (Annexure II to SCC)

1. **TECHNICAL SPECIFICATION :**

**Mechanical, Electrical, Control & Instrumentation and Civil**

**Respective area of EIL Specification Doc. No. DC/B224-511-PG-T-9509/3007 of Annexure-4.**

1. **Brief Qualification requirement for “CFBC BOILER SUPPLIER”:**

**A) TECHNICAL EXPERIENCE CRITERIA:**

Bidder should have experience of Basic engineering, Detailed Engineering, Procurement, Inspection, supply, Erection, Construction, Pre-commissioning and Commissioning/ Commissioning Assistance of at least one grass root Petcoke based CFBC boiler package.

Note: Bidder who has executed the Petcoke based CFBC based boiler package as specified herein above excluding civil works in Bidder’s scope shall also qualify for the job subject to the EIL/HRRL acceptance of same

Petcoke based CFBC boiler package for the reference job shall meet all the requirements stipulated under Clause 5.1.3 and 5.1.5 of IFB, EIL specification. Only grass root commercial application for CFBC boiler package shall be acceptable as reference.

The reference CFBC boiler should have fired either Petcoke or a mixture of Petcoke and coal only.

i) The reference units provided by the bidder with respect to their experience must be Non Captive units (shall mean, other than In-house units executed and completed for their Own (themselves) or for Parent or for Subsidiary/affiliate) subject to Clause No. 5.5.5 (j) and bidder is required to declare

the same upfront in the bid. Experience of any Pilot plant & Demo plant is not acceptable.

ii) The unit(s) as referred above must have been commissioned and should have completed operation for atleast one (1) year after commissioning within the last 10 (Ten) years from the last day of the month immediately previous to one in which bid is invited (floated) by BHEL.

**B) COMMERCIAL EXPERIENCE CRITERIA:**

The contract(s) under Clause **No9A**above of BQC Technical against which bidder is getting qualified should have been completed during the last 10 (ten) years ending last day of the month immediately previous to the one in which bids are invited (floated) by BHEL.

(i) One completed contract having value not less than **INR 680Million** or **US $ 7.04 Million**

Or

(ii) Two completed contracts, each having value not less than **INR 550 Million** or **US $ 4.50 Million**

Or

(iii) Three completed contracts, each having value not less than **INR 410 Million** or **US $ 3.50 Million**

**And**

Bidders must have achieved an average annual financial turnover (Audited) of Rs.150Cr or more over last three completed Financial Years (FY) i.e. 2016-2017, 2017-18 & 2018-19.

**And**

Net worth of the Bidder based on the latest Audited Accounts as furnished for ‘Turnover criteria’ above should be positive.

Net worth = Paid up share capital\* + Reserves. (\*Share Capital OR Partnership Capital OR Proprietor Capital as the case may be)

**And**

Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three years defined in ‘Turnover criteria' above based on latest Audited Accounts.

NET cash profit=(PAT + Non cash expenditure viz depreciation)

1. In addition to above bidder shall meet the following criteria:

* Sole Bidder being a foreign entity should have an operating Indian establishment which is either their own or subsidiary/affiliate wherein they have controlling rights as on the last day of the month immediately previous to one in which bid is invited (floated). This Indian establishment must:
  + Have been in operation for more than 7 (Seven) years reckoned from the last day of the month immediately previous to one in which bid is invited (floated) (i.e. the issue of IFB on e-tendering website)
  + Have at least 150 (One Hundred & Fifty) Technical (Graduate Engineers) employees (Project management, engineering, procurement, HSE, construction, etc.) on their payrolls as on the last day of the month immediately previous to one in which bid is invited (floated).
* Bidder shall comply with the Domestically manufactured Iron & Steel Products in Government Procurement (DMI& SP) as per Appendix-VII to ITB of EIL’s specification and shall declare the same along with their Bid.
* Bidder shall comply with Purchase Preference (Linked with Local content)(PP-LC) as per Appendix-VIII to ITB of EIL’s specification and shall declare the same along with their Bid
* In addition to above qualification criteria(Technical and Commercial), all other qualification requirements (if any) mentioned in M/s EIL specification (Bidding Document No.: DC/B224-511-PG-T-9509/3007) shall be met by the Bidders.

1. **Bid evaluation Criteria:**

Bids shall be evaluated based on the total Landed cost to BHEL, which shall be calculated by considering the following items:

* 1. Total Lumpsum price quoted by Bidder as per format indicated in this Specification.
  2. Guaranteed Utility Consumption (applicable to CFBC package) as per FORM SP-10 of SOP in line with Annexure II to SCC of EIL Specifications
  3. Extended warranty charges (applicable to CFBC package) as per SP-11 of SOP of EIL Specifications
  4. PWCAMC charges (applicable to CFBC package) as quoted in SP-12 of SOP of EIL Specifications.

1. **Completion Schedule:**

**CFBC Boiler supply, Civil Works, E&C works:**

24 Months for Mechanical Completion from the date of issue of Letter of Acceptance

(LOA) plus 2 Months for Pre Commissioning & Commissioning.

1. **Quality & Inspection**

To ensure that the equipment and services under the Scope of Contract whether manufactured or assembled within the “CFBC BOILER SUPPLIER” works or at his Sub-Vendor’s premises or at the Owner’s site or at any other place or work are in accordance with the specifications, relevant quality Standards (International & Indian) “CFBC BOILER SUPPLIER” shall adopt suitable quality assurance program to control such activities at all points, as necessary. Such program shall be outlined by the “CFBC BOILER SUPPLIER” and shall be finally accepted by the Owner / Authorized representative after discussions before the award of Contract. The QA program shall be generally in line with ISO-9002/IS-14001. A quality assurance program of the “CFBC BOILER SUPPLIER” shall generally cover the following:

System for shop manufacturing and site erection control including process controls, fabrication and assembly controls.

Quality Assurance Documentation:

The “CFBC BOILER SUPPLIER” shall submit required no. of copies of the following Quality Assurance documents

* + 1. Material test reports on components as specified by the specification and approved Quality Plans.
    2. The inspection plan with verification, inspection plan check points, verification sketches, if used and method used to verify that the inspection and testing points in the inspection plan were performed satisfactorily.
    3. Sketches and drawings used for indicating the method of traceability of the radiographs to the location on the equipment.
    4. Non-destructive examination results, reports including radiography interpretation reports.
    5. Factory tests results for testing required as per applicable codes and standards referred in the specification and approved Quality Plans.
    6. Inspection reports duly signed by QA personnel of the customer and CFBC Boiler bidder for the agreed customer hold points.

The equipment shall be guaranteed to meet performance requirements required by this specification and rectification shall be carried out until satisfactory results are obtained. The Owner reserves the right to reject the equipment should the performance values fall short of those indicated in the schedule of Technical data sheets.

Quality Plan:

“CFBC Boiler Supplier” shall furnish Quality Plan [Supply Quality plan] to BHEL along with offer in their standard format for general review by BHEL. During Detailed engineering, in addition to various tests indicated in this specification, Quality plan will be reviewed with respect to standard Inspection, standard Engineering practices, applicable standards, code etc. Accordingly, various tests required, stages of inspection and appropriate agencies for Inspection will be intimated. CFBC Boiler bidder to abide by the same.

* 1. Tests & Inspection:

The manufacturer shall conduct all tests required to ensure that the equipment furnished shall conform to the requirements of this specification and in compliance with requirements of applicable codes and standards.

The particulars of the proposed tests and the procedures for the tests shall be submitted to the Purchaser/Consultant for approval before conducting the tests.

* 1. Test at Manufacturer’s work (as applicable):

Material Tests

Other Tests

Site Performance Test:

* 1. Inspection agency:

BHEL/Third Party appointed by BHEL/Customer

The various inspection stages will be witnessed by individual agencies (or) Group of Agencies as per above, in line with approved quality plan.

1. **PROTECTION FOR SHOP FABRICATED ITEMS:**
2. All coated surfaces shall be protected against abrasion, impact, discoloration and any other damages. All exposed threaded portions shall be suitably protected with either a metallic or non-metallic protecting device. The parts which are likely to get rusted due to exposure to weather, should also be properly treated and protected in a suitable manner. All exposed metallic surfaces subject to corrosion shall be protected by shop application of suitable coatings. All surfaces which will not be easily accessible after the shop assembly, shall beforehand be treated and protected for the life of the equipment. All surfaces shall be thoroughly cleaned of all mill scale, oxide and other coatings and prepared in the shop.
3. The surfaces that are to be finish‑painted after installation or require corrosion protection until installation, shall be shop painted with at least two coats of primer. The finished colors shall be as per referred EIL Specification Doc. No. CS-2600-001-9.
4. All material shall be delivered in a clean and usable condition. Openings shall be securely covered against entry of foreign material where appropriate.
5. **PACKING AND TRANSPORTATION:**

All equipment shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at site till the time of erection. “CFBC BOILER SUPPLIER” shall follow necessary road safety rules and shall obtain permission from highway authorities for goods movement. However, these aspects shall be taken into consideration in the design of the packing for the system.

1. **NAME PLATES & TAG PLATES**:
2. Components whose identity is important for operation and maintenance of the plant shall be provided with permanently attached tag bearing the Purchaser’s coding together with relevant text clearly inscribed.
3. A corrosion-resistant nameplate shall be attached to each unit in a clearly visible, easily accessible location. The nameplate shall be stamped with the following information:

# Manufacturer’s name

# Manufacturer’s model number

# Manufacturer’s serial number

# Purchaser’s equipment tag number (item No.)

# Service name

# Weight (kg)

# Hydrostatic test pressure, Bar. (g)

# Other design information of the flow media like flow rate, temperature, pressure etc.

1. Nameplates shall be 3 mm (0.12”) thick engraved plate of sufficient rigidity with lettering of a minimum height of 4 mm (0.16”). The method of implementation and labelling will be informed for all components after award of contract.
2. Identification tags shall be provided and placed on all CFBC Boiler bidder furnished items. Tags shall be corrosion resistance, having a larger than diameter of 3 cm, and shall have black identification figures stamped thereon. Figure height shall be larger than 0.5 cm. Tags shall bear the component system designation symbol shown on the “CFBC BOILER SUPPLIER” drawings.
3. **VENDOR DOCUMENTATION:**
4. **Pre-Bid Stage:**

Following documents are to be furnished by “CFBC BOILER SUPPLIER” to BHEL:

# Civil inputs (Load Details of various component and structure of Boiler)

# Electrical Load List (Normal, Emergency, DC, UPS etc.)

# Overall Process Flow Diagram /P&IDs

# Fuel requirements(HSD, Pet coke, Natural Gas)

# Utility requirements(Aux Cooling water, Limestone, Bed Material, IA,SA etc)

# Coal handling and Ash Handling system Design input

# ESP Design Input

# FGD Design Input

# Technical write up

# Control/ Operation/ Design Philosophy

# Functional guarantees

# Filled in Data sheets

# PLC system configuration with Technical Literature & PLC Requirements

# Special Tool and tackle

# Sub contractor proposed by Bidder

# Commissioning /start up spares

# Mile stone schedule

# Any other data related to Boiler as required by BHEL

1. **During Project Execution:**

Documents to be submitted by CFBC Boiler bidder after receipt of order:

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No** | **DRG/DOC. NAME** | **Date of Submission** |
| **MECHANICAL** | | |
| M.01 | P&ID | 1 week from PO |
| M.02 | System write-up (Including Control Philosophy) | 1 week from PO |
| M.03 | Boiler Performance data | 4 weeks from PO |
| M.04 | Design Basis and Sizing Criteria of Boiler Plant including Process Calculations | 1 week from PO |
| M.05 | List of Utilities along with quantity | 2 weeks from PO |
| M.06 | Auxiliary power consumption of Boiler and its auxiliaries | 4 weeks from PO |
| M.07 | Equipment Layout | 2 weeks from PO |
| M.08 | Equipment list and load details | 2 weeks from PO |
| M.09 | Pipe Schedule | 2 weeks from PO |
| M.10 | Valve Schedule and valve specification | 2 weeks from PO |
| M.11 | List of Terminal Points | 2 weeks from PO |
| M.12 | Data sheets of Boiler and its auxiliaries | 2 weeks from PO |
| M.13 | GA of ID Fan, FD Fan | 3 weeks from PO |
| M.14 | GA of Flue Gas Cleaning Equipment | 3 weeks from PO |
| M.15 | Data sheet of Boiler and its auxiliaries | 3 weeks from PO |
| M.16 | Piping layouts | 4 weeks from PO |
| M.17 | Forces and moments of piping at terminal point for steam & feed water lines | 4 weeks from PO |
| M.18 | All documents required for HRRL/EIL submission as per EIL specification for the items pertaining to Boiler | 6-8 weeks from PO |
| M.19 | Any other document pertaining to Boiler as desired by BHEL | 6-8 weeks from PO |
| **ELECTRICAL** | | |
| E.01 | Electrical Load List with normal power ( HT/LT), emergency power (HT/LT), DC Power, UPS power, Power for lighting requirements etc., | 2 weeks from PO |
| E.02 | Dimensional details of MCCs, DBs etc., pertaining to Boiler | 4 weeks from PO |
| E.03 | Various layouts like Earthing layout, Lightning protection layout, cable tray layout, Illumination layout etc., pertaining to Boiler | 6 weeks from PO |
| E.04 | Cable tray BOQ for the trays required to support boiler package cables beyond boiler 1st coloumn | 6 weeks from PO |
| E.05 | All documents required for HRRL/EIL submission as per EIL specification for the items pertaining to Boiler | 6-8 weeks from PO |
| E.06 | Any other document pertaining to Boiler as desired by BHEL | 6-8 weeks from PO |
| **INSTRUMENTATION** | | |
| I.01 | Instrument Index with BOQ, range, set points etc., | 2 weeks from PO |
| I.02 | Instrument Hook up drawings | 4 weeks from PO |
| I.03 | Technical data sheet of Instruments | 3 weeks from PO |
| I.04 | PLC Configuration Diagram, GA & Wiring diagram | 4 weeks from PO |
| I.05 | PLC I/O List | 5 weeks from PO |
| I.06 | PLC Logic Diagram | 5 weeks from PO |
| I.07 | PLC Control Room Layout | 5 weeks from PO |
| I.08 | PLC Power Supply AC Inputs requirement | 5 weeks from PO |
| I.09 | PLC interconnection diagrams | 5 weeks from PO |
| I.10 | All documents required for HRRL/EIL submission as per EIL specification for the items pertaining to Boiler | 6-8 weeks from PO |
| I.11 | Any other document pertaining to Boiler as desired by BHEL | 6-8 weeks from PO |
| **CIVIL** | | |
| C.01 | Civil input drawings for all buildings | 4 weeks from PO |
| C.02 | Civil input drawings for all including Tanks, pits and chambers etc. | 4 weeks from PO |
| C.03 | Foundation details of all equipment (Boiler and auxiliaries) | 4 weeks from PO |
| C.04 | Foundation details of structures & pipe racks within boiler area | 4 weeks from PO |
| C.05 | All documents required for HRRL/EIL submission as per EIL specification for the items pertaining to Boiler | 6-8 weeks from PO |
| C.06 | Any other document pertaining to Boiler as desired by BHEL | 6-8 weeks from PO |
| **MISCELLANEOUS** | | |
| MIS.01 | Commissioning spares | 5 weeks from PO |
| MIS.02 | Recommended spares/Mandatory Spares | 5 weeks from PO |
| MIS.03 | Consumable list (Chemicals, oil, grease etc.) | 5 weeks from PO |
| MIS.04 | O&M manual | 5 weeks from PO |
| MIS.05 | Performance Test Procedure | 5 weeks from PO |

**Note:**

* + 1. The date of first submission is indicated above. CFBC Boiler bidder shall submit all subsequent revision within 5 working days of comments by BHEL.
    2. The above list is minimum Documents required. Final list shall be prepared by CFBC Boiler bidder and submitted to BHEL during detailed engineering stage for BHEL approval.

1. **The O&M manuals shall contain the following details as minimum in addition to those indicated in the above table:-**
2. Identification details of the equipment like BHEL PO NO., Sub Vendor’s Sl. No., Sub -Vendors contact address with tel., fax details.
3. Description of the equipment.
4. Final Data sheets and Drawings of the equipment as per the list mentioned in this specification.
5. Recommended 2 years operational spares.
6. Test reports.
7. **The erection documentation shall consist of**
8. All drawings/documents,
9. All such drawings/documents, not submitted for review, but essential for erection/ commissioning, e.g. assembly drawings, etc.
10. Master document list
11. Site dispatch able B.O.M.
12. **Performance Guarantees**

The guarantees shall form contract guarantees to be demonstrated through an approved performance test after the completion of the Plant. The schedule shall be finalized during the detail engineering stage.

1. **Terminal/ Interface Points between CFBC Boiler bidder and BHEL:**

**Refer Annexure-2**

1. **Information to be submitted along with Technical offer (Cover-1)**
2. Filled in Formats (Key Information, Recommended spares, special tools & tackles and Deviations) given below
3. Checklist
4. Unfilled price-bid format
5. Supporting Documents duly authenticated as per Cl. No. 5.5.6 of IFB to meet the Bidder Qualification Criteria for CFBC Package duly certified as per EIL specifications

**KEY INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name of the Bidding Company |  |  |
|  | Registered in (mention the name of the Country) |  |  |
|  | Name, designation, telex & telephone number and postal address of responsible officer of CFBC Boiler bidder to whom all reference shall be made for expeditious co-ordination. |  |  |
|  | Name, designation, telex & telephone number and postal address of responsible officer of Indian Agent. |  |  |
|  | “CFBC BOILER SUPPLIER” proposal number |  |  |
|  | “CFBC BOILER SUPPLIER” proposal date |  |  |
|  | Validity of offer, counted from the date of opening of bid |  |  |
|  | Guaranteed completion period, counted from date of issuance of LOI/TOI |  |  |
|  | Confirm that Scope of supply and services are exactly as per specification requirement |  | Yes/No |
|  | Confirm Technical Compliance with Specification |  | Yes/No |
|  | Confirm that Guarantees are as per Job Specification |  | Yes/No |
|  | Confirm that List of Recommended Spares has been furnished as per Annexure-V |  | Yes/No |
|  | Confirm that List of Special Tools & Tackles has been furnished as per Annexure-VI |  | Yes/No |
|  | Confirm that deviations ,if applicable, have been furnished as per Annexure-VII |  | Yes/No |

Signature of CFBC BOILER SUPPLIER’s

Authorized representative ......................................

Date.............

**LIST OF RECOMMENDED SPARE PARTS**

“CFBC BOILER SUPPLIER” shall tabulate in the proforma below list of all spare parts as recommended by the respective manufacturer for regular, reliable operation. In case the CFBC Boiler bidder has to add any other relevant information, the same shall be indicated herein. Continuation sheets of like size and format may be used as per CFBC Boiler bidder’s requirements.

Sl. Description Quantity Unit Total Delivery Remarks No Price Price Period

Signature of CFBC BOILER SUPPLIER’s

Authorized representative ......................................

Date.............

**LIST OF SPECIAL TOOLS AND TACKLES**

“CFBC BOILER SUPPLIER” shall tabulate in the proforma below list of all tools and tackles as recommended by the respective manufacturer for regular, reliable operation. In case the “CFBC BOILER SUPPLIER” has to add any other relevant information, the same shall be indicated herein. Continuation sheets of like size and format may be used as per CFBC Boiler bidder’s requirements.

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.No. | Description | Quantity | Remarks |
| **a** |  |  |  |
| **b** |  |  |  |
| **c** |  |  |  |
| **d** |  |  |  |

Signature of CFBC Boiler bidder’s

Authorized representative ......................................

Date.............

**DEVIATION FROM SPECIFICATION**

If the proposal submitted has got any deviation from the technical stipulations in the bidding document, the CFBC Boiler bidder shall tabulate below the full particulars of such deviations and shall sign below. Additional sheets may be enclosed, if necessary. Deviation is to be furnished with mention of specific clause numbers. Technical and commercial deviations to scope of supply and services, shall be indicated separately. CFBC Boiler bidders shall bring put only those deviations which are impractical to meet (or) not advisable

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **CLAUSE NO.** | **DESCRIPTION AS PER SPECIFICATION** | **DEVIATION BY CFBC BOILER SUPPLIER** |
|  |  |  |  |

We confirm that all the deviations/exceptions to the Technical Specification PY51084, Job

Specification and enclosures including reference documents attached are listed in this Annexure

only. No other deviations or exceptions even if mentioned elsewhere shall be considered for any

technical/ commercial evaluation or for ordering.

Signature of CFBC BOILER SUPPLIER’s

Authorized representative.......................................

Date .............

1. **CHECK LIST**

CFBC BOILER SUPPLIER to note that Check List shall be completely filled and the data required in-line with Check List shall be submitted along with their Offer to enable Purchaser to evaluate the offer submitted.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Description** | **Enclosed or [Yes/No]** | **Remarks/ Comments**  **by CFBC Boiler bidder** |
| 1 | **CFBC BOILER SUPPLIER to confirm compliance with** spec. PY-51606 and its annexure without any deviations. |  |  |
| 2 | CFBC BOILER SUPPLIER has already raised pre-bid queries (if any) on Purchase specification. |  |  |
| 3 | CFBC BOILER SUPPLIER shall submit completely filled following Formats enclosed with Technical Purchase Specification PY 51589 along with their offer  Key Information  List of Recommended Spare Parts  Special Tools and Tackles  Deviation from specification |  |  |
| 4 | Tentative Electrical Load List is enclosed with offer. |  |  |
| 5 | CFBC BOILER SUPPLIER shall furnish the list of Erection and commissioning spares along with their offer. |  |  |
| 6 | CFBC BOILER SUPPLIER to fill Deviation list (Refer Annexure-VII of PY 51589). Only those deviation indicated in this list will be considered during technical evaluation of offer. CFBC Boiler bidder to indicate the deviations which are impractical. |  |  |
| 7 | All other requirements except the deviations brought out under deviation list, have been taken into consideration in the offer. |  |  |
| 8 | CFBC BOILER SUPPLIER has submitted unpriced “Price bid format” with “Quoted” mentioned against price for each line item of Price Bid Format |  |  |

**UNPRICED BID FORMAT(Bidder to only write Quoted or Unquoted against each item)**

**PRICE SCHEDULE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ITEM**  **NO.** | **DESCRIPTION** | **QTY.** | **UNIT PRICE (Rs)** | **TOTAL**  **PRICE**  **(Rs)** |
| **1.0** | **DESIGN, ENGINEERING, MANUFACTURE, SUPPLY, SUPERVISION OF ERECTION & COMMISSIONING** | | | |
| **1.1** | **Design, Engineering, Manufacture, Supply of the CFBC Boiler and Auxiliaries** | **1 set** |  |  |
| 1.1.1 | CFBC Boilers (4 nos) and associated auxiliaries as per Scope Matrix | 1 set |  |  |
| a) | Mechanical Items as per Scope Matrix | 1 set |  |  |
| b) | Electrical Items as per Scope Matrix | 1 set |  |  |
| c) | C&I Items as per Scope Matrix | 1 set |  |  |
| 1.1.3 | Special Tools & Tacklesfor supplied items as per the specification | 1 set |  |  |
| 1.1.4 | **Commissioning and erection spares**  [Item wise list of commissioning and erection spares with unit rate and quantity for supply items listed under Sl. No. 1.1 above to be furnished by CFBC Boiler bidder) | 1 set |  |  |
| **1.2** | **Engineering services** for the design of the CPP plant equipment /system as per the specification. | **1 Set** |  |  |
| **1.3** | **Complete Civil Works related to CFBC Boiler(4 nos) as per scope Matrix** | **1 Set** |  |  |
| **1.4** | **Complete Erection and commissioning of the Bidder supplied equipment including Performance Guarantee test** of the plant as per the Tender specification. | **1 Set** |  |  |
| **2.0** | **O&M Spares** | | | |
| 2.1 | 2 years O&M spares during the O&M period. | **As required** |  |  |
| 3.0 | **2 Years Extended Warranty For Instrumentation items** |  |  |  |
| 3.1 | Price for 2 Years Extended Warranty for Instrumentation items as per relevant provisions of technical Volume | As required |  |  |
| **4.0** | **Prices for Post Warranty Comprehensive Annual Maintenance Services** |  |  |  |
| 4.1 | PWCAMC as per Tender Specification |  |  |  |
|  | **TOTAL (1.0 + 2.0+3.0+4.0) for Lowest Bidder Evaluation** |  |  |  |

**NOTES:-**

* 1. CFBC BOILER SUPPLIER to quote strictly as per BHEL’s NIT requirements.
  2. CFBC BOILER SUPPLIER to note that this is a LUMP SUM Turn-Key Order. Any additional claim after placement of order will not be entertained under any circumstances.
  3. CFBC BOILER SUPPLIER to quote the base rates only. All Applicable taxes and duties shall be indicated separately for the Supply Portion and Erection & Commissioning Portion.
  4. CFBC BOILER SUPPLIER shall also submit unpriced copy of the Price-Bid Format with “Quoted” against each line item of the format along with the technical offer.
  5. CFBC BOILER SUPPLIER to quote strictly in the price bid format with line wise itemized price and quantity, failing which the CFBC Boiler bidder’s offer shall be liable for rejection.
  6. Bidders need to quote the basic rates only against each item. They may indicate applicable taxes (GST) separately.
  7. Rate for supply items may be quoted inclusive of packing & forwarding charges, freight & transit insurance but exclusive of taxes (GST)
  8. Payment of GST will be made as per GCC & SCC document.
  9. All the requirements stipulated in the Tender Specification, Replies to Pre bid queries, subsequent amendments, Clarifications etc issued by M/s EIL / BHEL(from date of issue of Tender to date of Handing over of the Plant) shall be met by CFBC boiler vendor. However, Tender Specification, amendments, Clarifications etc issued by M/s EIL / BHEL, Three(3) days prior to bid submission date shall be considered for Bid evaluation.

Signature of CFBC BOILER SUPPLIER’s

Authorized representative ......................................

Date.............

**LIST OF ATTACHMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl**  **No.** | **Description** | **Drg. / Doc. No.** | **Rev. No.** |
| 1 | SCOPE MATRIX BETWEEN BHEL & “CFBC BOILER SUPPLIER” | Annexure - 1 | 00 |
| 2 | TERMINAL POINTS | Annexure - 2 | 00 |
| 3 | EXCLUSIONS | Annexure - 3 | 00 |
| 4 | TECHNICAL SPECIFICATION(To be downloaded from websites: https://eprocure.gov.in/eprocure/app  <http://tenders.eil.co.in>  **EIL Tender No:**  **DC/B224-511-PG-T-9509/3007** | Annexure - 4 | 00 |
| 5 | MoU Format (Between BHEL & Bidder) | Annexure - 5 | 00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **RECORD OF REVISIONS** | | | | |
| **Rev. No.** | **Date** | **Revision Details** | **Revised By** | **Approved By** |
| 00 | 28.11.19 | First Issue | SC | BHK/JKP |
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