



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-26-Jul-23

CORRIGENDUM- 03

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|-------------------|----------|---|
| PROJECTs | : | 5X800 MW YADADRI TPS |
| PACKAGE | : | VENTILATION SYSTEM |
| GeM Bid NO | : | GEM/2023/B/3679572 Dated 12.07.2023 |
| SUBJECT | : | DUE DATE EXTENSION + TECHNICAL AMENDMENT |

| | | | |
|-------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Type of Corrigendum | | | |
| Technical Corrigendum - | <input checked="" type="checkbox"/> | Commercial Corrigendum - | <input checked="" type="checkbox"/> |

Bidders are requested to go through the following -

1. Technical Amendment-1 as below

| Sl. No. | Clause | Existing description | To be read as (Amendment) |
|---------|--|-------------------------|--|
| 1 | Section-II, Sub- section-6, (Electrical Scope between BHEL and Vendor), Page no 198 of 276 of Technical specifications | Electrical Scope Matrix | Revised Electrical Scope Matrix attached |
| 2 | Section-I, Sub- section-C1 (Electrical Scope between BHEL and Vendor), Page no 19 of 276 of Technical specifications | | |

Due date & time of bid submission has been extended upto 02.08.2023 @04:00 PM.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,
For and on behalf of BHEL

Sumeet Sahay
Manager/BOP

ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR

Rev-01

| S.NO | DETAILS | SCOPE SUPPLY | SCOPE E&C | REMARKS |
|------|---|------------------|------------------|--|
| 1 | 415V MCC | BHEL | BHEL | 240 V AC (supply feeder)/415 V AC (3 PHASE 4 WIRE) supply shall be provided by BHEL based on load data provided at contract stage for all equipment supplied/erected by vendor as part of contract. Any other voltage level (AC/DC) required will be derived by the vendor. |
| 2 | Local Push Button Station (for motors) | BHEL | BHEL | Located near the motor. |
| 3 | Power cables, control cables and screened control cables for a) both end equipment in BHEL's scope b) one end equipment in vendor's scope ΔR1 | BHEL BHEL | BHEL BHEL | <p>1. For 3a).b) : Sizes of cables required shall be informed by vendor at contract stage (based on inputs provided by BHEL) in the form of cable listing. Finalisation of cable sizes shall be done by BHEL. Vendor shall provide lugs & glands accordingly.</p> <p>2. Termination at BHEL MCC/PLC equipment terminals by BHEL.</p> <p>3. Termination at all Vendor's erected equipment terminals by Vendor.</p> <p>Refer note 4,5,6,7 for JB's Δ R1</p> |

| S.NO | DETAILS | SCOPE SUPPLY | SCOPE E&C | REMARKS |
|------|--|--------------------|--------------------|---|
| 4 | Junction box for control & instrumentation Δ R1 | Vendor | Vendor | Number of Junction Boxes shall be sufficient and positioned in the field to minimize local cabling (max 10-12 mtrs) and trunk cable. Refer note 4,5,6,7 for JB's Δ R1 |
| 5 | Any special type of cable like compensating, co-axial, prefab, MICC, optical fibre etc. | Vendor | Vendor | Refer C&I portion of specification for scope of fibre Optical cables if used between PLC/ microprocessor & DCS. |
| 6 | Cable trays, accessories & cable trays supporting system 100/ 50 mm cable trays/ Conduits/ Galvanised steel cable troughs for local cabling | BHEL Vendor | BHEL Vendor | Local cabling from nearby main route cable tray (BHEL scope) to equipment terminal (vendor's scope) shall be through 100/ 50 mm. cable trays/ conduits/ Galvanised steel cable troughs, as per approved layout drawing during contract stage. |
| 7 | Cable glands ,lugs and bimetallic strip for equipment supplied by Vendor | Vendor | Vendor | 1. Double compression Ni-Cr plated brass cable glands 2. Solder less crimping type heavy duty tinned copper lugs for power and control cables. |
| 8 | Conduit and conduit accessories for cabling between equipment supplied by vendor | Vendor | Vendor | Conduits shall be medium duty, hot dip galvanised cold rolled mild steel rigid conduit as per IS: 9537. |
| 9 | Lighting | BHEL | BHEL | |
| 10 | Equipment grounding (including electronic earthing) & lightning protection | BHEL | BHEL | Refer note no. 3 for electronic earthing |
| 11 | Below grade grounding | BHEL | BHEL | |
| 12 | LT Motors with base plate and foundation hardware Δ R1 | BHEL | BHEL | Makes as per customer/ BHEL approved list Δ R1 |

| S.NO | DETAILS | SCOPE SUPPLY | SCOPE E&C | REMARKS |
|------|--|------------------------------------|---------------------|--|
| 13 | Mandatory spares | Vendor | - | Vendor to quote as per specification. |
| 14 | Recommended O & M spares | Vendor | - | As specified elsewhere in specification |
| 15 | Any other equipment/ material/ service required for completeness of system based on system offered by the vendor (to ensure trouble free and efficient operation of the system). | Vendor | Vendor | |
| 16 | a) Input cable schedules (Control & Screened Control Cables) b) Cable interconnection details for above c) Cable block diagram | Vendor Vendor Vendor | - - - | Cable listing for Control and Instrumentation (typical sheet attached in drawing section)Cable and electronic earthing cable in enclosed excel format shall be submitted by vendor during detailed engineering stage. |
| 17 | Electrical Equipment & cable tray layout drawings | Vendor | - | For ensuring cabling requirements are met, vendor shall furnish Electrical equipment layout & cable tray layout drawings (both in print form as well as in AUTOCAD) of the complete plant (including electrical area) indicating location and identification of all equipment requiring cabling, and shall incorporate cable trays routing details marked on the drawing as per PEM interface comments. Cabling arrangement of the same (wherever overhead cable trays, trenches, cable ducts, conduits etc.) shall be decided during contract stage. Electrical equipment layout & cable tray layout drawing shall be subjected to BHEL/ customer approval without any commercial implications to BHEL. |
| 18 | Electrical Equipment GA drawing | Vendor | - | For necessary interface review. |

NOTES:

1. Make of all electrical equipment/ items supplied shall be reputed make & shall be subject to approval of BHEL/customer after award of contract.
2. All QPs shall be subject to approval of BHEL/customer after award of contract without any commercial implication.
3. Vendor shall indicate location of Electronic Earth pit in their Civil assignment drawing.
4. E&C of cabling from instruments to local JB (Junction Box) shall be in Vendor scope. **Δ R1**
5. Supply of Junction Box/Local Joints/Connector for connecting cables of Fire damper, actuator of motorised butterfly valve etc with cable from PLC/MCC shall be in Vendor scope. **Δ R1**
6. E&C of cable from JB to PLC shall be in BHEL scope. **Δ R1**
7. In case requirement of Junction box arises on account of Power cable size mis match at later stage, Vendor shall supply the junction Box for suitable Termination. **Δ R1**

Project- 5 x 800 MW Yadadri TPS

ADDITIONAL TERMS & CONDITIONS (ATC)

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| 1. Package | VENTILATION SYSTEM | |
| 2. Project | 5 x 800 MW YADADRI TPS | |
| 3. End Customer | Telangana State Power Generation Corporation Limited | |
| 4. Executing Agency | BHEL-PSSR | |
| 5. Nature of Package (Divisible/Non-Divisible) | Non-Divisible | |
| 6. Technical Scope | As per Technical specification No: PE-TS-417-554-A002 | |
| 7. Schedule of Pre-Bid Discussion | Based on Bidder's request, Pre-Bid meeting shall be arranged. | |
| 8. Prequalification Requirement | Financial PQR- YES | Technical PQR- YES |
| 9. Delivery terms for Supply portion | FOR Despatch Station | |
| 10. Integrity Pact Applicability - | YES | |
| 11. Bidders can also download detailed tender for subject package & project uploaded at www.pem.bhel.com and www.bhel.com . | | |
| 12. In line with cl. No. 12 of (ITB) BOP-GCC, following Independent External Monitors (IEMs) have been appointed by BHEL. Shri Otem Dai, IAS (Retd.) (iem1@bhel.in) Shri Bishwamitra Pandey, IRAS (Retd.) (iem2@bhel.in) Shri Mukesh Mittal, IRS (Retd.) (iem3@bhel.in) | | |
| 13. Delivery Schedule shall be as follows- Supply (along with commissioning spares) – 08 months from the date of LOA. E&C** - Within 04 months from the date of availability of front. Site front availability will be reckoned as the date when site informs vendor for mobilization of manpower & resources. Mandatory Spares - Mandatory Spares and Tools & tackles (if any) are to be delivered along with the last consignment of main supply within the contractual delivery period. O&M Services - Personnel for O&M Services shall be deputed within 10 days of intimation. ** For PVC calculation purpose contractual delivery for E&C shall be considered as 12 months from LOA. Note: Above delivery conditions are to be complied by bidder strictly Delivery on GeM portal shall be selected as 2190 days. Same shall be indicative to suffice the GeM portal requirement. | | |
| 14. Payment Terms - As per GCC BOP Rev-00. Provision of offline payment in GeM shall be utilized. | | |
| 15. Evaluation Criteria - Total Package Price (including freight and taxes) Bidder has to quote the total package price of complete scope, as per technical specification, in GeM. Price break up of total package price shall be provided by bidder in price format uploaded in GeM. In case of discrepancy between total package price and price break up, total price quoted on GeM shall prevail and break up shall be corrected accordingly. | | |

Bidders to note the following Additional Terms and Conditions for subject tender-

1. Bidder to note that this is an Open Tender enquiry & PBO/RA participation shall be subject to following condition:
 - a) Qualifying Technical & Financial Pre-Qualification Requirement.
 - b) Techno-commercial acceptance of offer by BHEL-PEM.
 - c) Approval of bidder by End Customer: - Same shall be taken up with end customer based on the latest credentials/reference list furnished by bidder in the format. Accordingly, bidders are requested to submit credential along with their technical bid.

The bidders who are not registered with BHEL-PEM may apply for registration in BHEL-PEM through Registration Portal available at www.pem.bhel.com -->vendor section-->online supplier registration. All credentials and/or documents duly signed & stamped related to registration has to be uploaded on the website & submit the application for registration. One set of hard copy filled-up SRF downloaded from Online Registration Portal duly signed & stamped has to be submitted.

2. Vendors shall submit billing documents for payment directly to BHEL. Payment will be released within days as mentioned below after submission of complete documents:
 - a) 90 days for non MSME as per MSMED Act
 - b) 45 days for vendors qualified and registered as Micro and Small Enterprises MSEs as per MSMED Act
 - c) 60 days for vendors qualified as Medium Enterprises as per MSMED Act.

Notes:

- a) Vendors are required to issue Tax Invoice inclusive of PVC value (if applicable) wherever indices are available. In case PVC indices not available, vendors to submit PVC invoices on availability of applicable indices.
 - b) Any negative PVC, if not adjusted in earlier payments, will be adjusted at the time of remaining payments.
3. If bidder mentions Not Applicable / Not required / Not Quoted in BHEL price format, the same to be substantiated by the bidder. If such item is required to be supplied for system completion in future, same will be supplied free of cost with in delivery period.
 4. HSE Plan for site operations by contractor shall be applicable.
 5. Bidder to quote non zero freight charges in percentage (%) of their quoted Total Ex-Works prices of supply.
 6. CIF is Not available.
 7. Construction power and Construction water shall be as per s.no -13 of SCC of the project.
 8. Insurance Deductibles and Excess: Following tentative insurance deductibles / excess shall be applicable.

For Marine Cover: Rs 20,000/-

For Storage /Erection and Testing Cover:

- a) Normal Excess: 5 % of the claim amount subject to a minimum of Rs. 2.25 Lakh.
- b) Testing Excess: 5% of the claim amount subject to minimum of Rs. 6.0 Lakh.

Act of God Perils: - 10% of the claim amount subject to minimum of testing period excess.
 Fire / Explosion Claims: 20% of the claim amount subject to minimum of testing period excess
 Extended Maintenance Cover/ Defect Liability Cover: As applicable for testing period excess.

Third Party Liability: The policy excesses (normal/testing periods) shall apply for third party liability property damage claims also. For third party liability claims arising out of acts of GOD perils. The excess applicable to AOG claims shall apply.

“The above mentioned insurance deductibles/excess are tentative in nature and may change after award of contract which will be applicable within quoted price”.

- 9. BG should be in favor of BHEL-PSSR in place of PEM. L1 Vendor will be required to submit BG of 5% of the contract value.

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| Initial ePBG validity | 32 months: - Initial e-PBG validity shall be 32 months from LOA date (Considering delivery period of 12 months + 18 months guarantee period + 2 months claim period is already mentioned in GTC cl no. 7.ii GeM 4.0 Version 1.5). However, BG will be released only after completion of all contractual liability or guarantee period whichever is later. |
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- 10. Quantity variation shall be +/-30% in line with GCC-BOP. Bidder to refer clause no. 6.0 of General Commercial Terms & Conditions of GCC BOP (available on www.pem.bhel.com).
- 11. Bidder to agree with clause no. 1.6 & 22 (Instruction to bidders), clause no. 10.0, 12.0, 13.0, 14.0 to 30.0, 34.2, 36.0 to 46.0 of GCC BOP (available on www.pem.bhel.com) & SCC of the project.
- 12. Bidders to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and e - mail Id etc. In case the same found not available, Purchaser has right to reject such document from evaluation.
- 13. Bidders to comply Govt. of India, Ministry of Power, order no-25-111612018-PG dated 02/07/2020 regarding mandatory testing of all the imported items/equipment's/components.
- 14. This item/Package falls under the list of items defined in Para 3 of Ministry guideline ref no.F.20/2/214-PPD(Pt.) dated.20-09-2016 (in respect of procurement of items related to public safety, health, critical security operations and equipment's, etc) & hence no relaxation of PQR for start-up/MSME vendors is envisaged for the items/Package”
- 15. Bidders may visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation etc. before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions. No additional claim shall be entertained by BHEL in future, on account of non-acquaintance of above.
- 16. The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding

process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines

17. A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:
- a) they have controlling partner (s) in common;' or
 - b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
 - c) they have the same legal representative/agent for purposes of this bid; or
 - d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
 - e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid, or
 - f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 2. Indian/foreign agent on behalf of only one principal,'
 - i. or
 - g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or
 - h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "
18. Self-declarations/ auditor's/ accountant's certificates submitted by the manufacturer/ supplier may be verified randomly by the committee constituted as per MoP Order 28-07- 2020. In case of false documents/misrepresentation of the facts requisite action against such manufacturer/ supplier will be taken based on the recommendation of the Committee.”
19. All the above terms and conditions, post-bid agreements/MoMs (during Techno- Commercial evaluation) shall automatically become a part of the Order/Contract after its finalization.
20. All corrigenda, addenda, amendments, time extensions, clarifications, etc. to the tender will be hosted on BHEL website (www.bhel.com), GeM Portal & BHEL-PEM website (www.pem.bhel.com). Bidders should regularly visit websites to keep themselves updated.
21. All other correspondence thereof shall be addressed to the undersigned by name & designation and sent at the following address:

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| Sanjeev Kumar/Dy. Engineer– BOP M/s Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 |
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| Sumeet Sahay/MGR-BOP M/s Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301 |
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