

Ref. Enquiry No.: PE/PG/THD/E-6763/2021 dated 16.09.2021

| DUE DATE    |
|-------------|
| 27 Sep 2021 |
| BY 02:00 PM |

Dear Sir/ Ma'am

**Subject: Open tender Enquiry for "Lighting Fixtures, Lamps & Misc. items" for 2X660MW KHURJA SUPER THERMAL POWER PROJECT (TG) project as per Technical Specification No. PE-TS-475-558-E006, Rev-0.**

BHEL invites your offers for design, manufacture, inspection and testing at manufacturer's works, proper packing and delivery to site of Oil filled Service Transformer as described in the various sections of the specification for **2X660MW KHURJA SUPER THERMAL POWER PROJECT (TG) Project.**

Your offer shall be submitted in two parts strictly as per Clause-2.0 of the "Instructions to Bidders" of GCC Rev. 07, in sealed cover for the below mentioned equipment/system.

| Item Description – Oil filled Service Transformer |  |                           |                              |
|---|--|---------------------------|------------------------------|
| Sl. No.   | Project  | TECHNICAL SPECIFICATIONS  | Delivery schedule completion |
| 1   | 2X660MW KHURJA SUPER THERMAL POWER PROJECT (TG) project. | PE-TS-475-558-E006, Rev-0 | As per annexure –A to NIT    |

Your best quotation/offer for the above requirement, in line with tender terms and conditions, should be submitted **online via e-procurement system (NIC portal)**. It shall be the responsibility of the bidder to ensure that the tender is submitted **on or before the due date by 02:00 PM**. Part-I (techno-commercial) bids shall be opened **at 05:00 PM on due date**.

**Note:** 1. Detailed tender documents have been uploaded on following websites: -

<https://eprocurebhel.co.in>, <https://www.bhel.com/tenders>; <https://pem.bhel.com/Home.aspx>

**Bidders are requested to upload their best offer on <https://eprocurebhel.co.in> only.**

2. In case bidders are not interested to quote, please send us the regret by e-mail or letter.

**ENQUIRY TERMS AND CONDITIONS:**

- Offers should be submitted/uploaded separately in two parts **online through e-procurement system** as follows:

**Part-I: TECHNO-COMMERCIAL BID**

**Part-II: PRICE BID**

For detailed instructions, please refer GCC Rev 07- Instructions to Bidders.

- Bidders shall submit their offers meeting the requirements of the following tender documents indicated in BHEL PEM GCC Rev- 07 and other Terms and Conditions included in this Enquiry Letter. Web link of GCC Rev 07 shall be as below, **bidders may download the GCC Rev 07 from the given web link and go through the same before quoting: -**

<https://pem.bhel.com/Documents/GCC/GCCRev07.pdf>

- Bidders to note that following form the part of tender documents:
  - General Conditions of Contract (GCC) Rev 07 comprising of: Instructions to Bidders and General Commercial Terms & Conditions
  - Technical Specifications

Saumya Pandey /Dy. Mgr/PG I  
PS-Project Engineering Management,  
Power Project Engineering Institute,  
Plot no. 25, Sector – 16A, Noida (UP) 201301, INDIA  
Phone: +91-120-4213543

Regd. Office  
BHEL House Siri Fort  
New Delhi-110049

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- c. Technical PQR
- d. Special Conditions of Contract (SCC Rev. 0) of Project.
- e. Enquiry terms & conditions (NIT) with Annexure-A
4. Any hidden conditions/deviations mentioned elsewhere in offer and standard pre-printed terms & conditions of the tenderers shall not be considered valid.
5. Tenders shall be submitted strictly in accordance with the requirements of the above-mentioned tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately in Annexure-II of GCC Rev-07 along with reasons for taking such deviations in the bidding format in E-Procurement portal (NIC portal). Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II shall not be considered. Bidders to note all the points mentioned in "Notes" of Annexure-II of GCC Rev.07.
6. Bidder has to submit "NO DEVIATION CERTIFICATE FOR COMMERCIAL TERMS AND CONDITIONS as per General Conditions of Contracts (GCC, Rev.07), Special Conditions of Contract and Notice Inviting Tender (NIT)" in case of no deviations.
7. Unsolicited fresh/revised bids shall not be entertained.
8. If any bidder has mentioned the term "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 by the successful bidder.
9. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/all tender(s) in part or full without assigning any reason whatsoever.
10. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be dispatched only after Purchaser's/Owner's inspection of the hold points specified in the approved Quality Plan and issue of Material Dispatch Clearance Certificate (MDCC).
11. Offers should be submitted separately in two parts online through e-procurement system only (NIC portal), however, all correspondence thereof, shall be addressed to the following persons and sent at the following address:

|  |  |
|--|--|
| <b>Ms. Saumya Pandey</b><br><b>Dy. Mgr, PG-I</b><br><b>E-mail: saumyapandey@bhel.in</b><br><b>Ph. +91-120-4213543</b><br><b>Mob: 07587571128</b>         | <b>Mr. Rajeev Lalwani</b><br><b>Sr. Manager, PG-I</b><br><b>E-Mail: rlalwani@bhel.in</b><br><b>Ph. No. +91-120- 4368793;</b><br><b>Mob: 9868875549</b> |
| <b>M/s. Bharat Heavy Electricals Ltd.,</b><br><b>Project Engineering Management,</b><br>PPEI Building, Plot No 25, Sector-16A, Noida-201301, U.P., INDIA |  |

12. Evaluation shall be done on Total Cost to BHEL basis (excluding GST) as per Cl. No. 19.2 of Instruction to Bidders of GCC, Rev. 07. Package is not divisible in nature.
13. Supervision charges should not exceed 2% of the total contract value.
14. Integrity Pact : Integrity pact is applicable for subject package. IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and

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corruption free manner. A panel of Independent External Monitors (IEMs) have been appointed by BHEL with the approval of CVC. The names of the IEMs in panel are as follows:

- I. Shri Arun Chandra Verma, IPS (Retd.) - [acverma1@gmail.com](mailto:acverma1@gmail.com)
- II. Shri Virendra Bahadur Singh, IPS (Retd.) - [vbsinghips@gmail.com](mailto:vbsinghips@gmail.com)

The IP as enclosed is to be submitted (duly signed by authorized signatory) along with techno-commercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this pact would be a preliminary qualification. Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the any of the IEMs mentioned above. All correspondence with the IEMs shall be done through email only.

"No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department officials."

**15. Govt. of India's Public Procurement Policy – Preference to Make in India Clause: -**

For subject tender only Class I local suppliers are eligible to bid (in line with clause no. 3 (a) of MII circular no P-45021/2/2017-PP (BE-II) Dtd-16-09-2020, as there is sufficient Local Capacity & Local Competition. In case of subsequent orders issued by nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT".

The local supplier at the time of tender, bidding, solicitation, shall be required to provide self-certification that as per the offered item, they meet the requirements of Class I local supplier as per the provisions of PPP-MII Order of Govt. of India and relevant circulars issued by nodal ministry w.r.t. above mentioned orders and shall give details of location(s) at which the local value addition is made in annexure B.

16. For this procurement, Public Procurement (Preference to Make in India), Order 2017 dt. 15/06/2017, 28/05/2018, 29/05/2019 & 04/06/2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

17. Bidder to note that this is a conditional Open Tender enquiry subject to following condition: -

- A) Meeting of Technical PQR
- B) Techno-commercial qualification/recommendation of bidder by the BHEL-PEM.
- C) Approval of vendor from end Customer (NTPL) shall be taken up by BHEL-PEM with customer. Bidders who are not approved from end customer should furnish the credentials (brief company profile, latest PO list, 3-4 latest similar POs with performance certificates) along with their bid.

18. 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 is found not available, BHEL has the right to reject such document from evaluation.

19. Compliance of model clauses as provided in Annexure-III of Ministry of Finance Order (Public Procurement No. issued on 23.07.2020 (Restrictions under Rule 144 (xi) of the GFR,2017) shall be applicable for subject tender. Model Certificates provided in same Annexure-III shall also be complied. Further, relevant clause of order no. 25-11/6/2018-PG dated 02.07.20 issued by MoP shall also be complied. An undertaking

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- regarding Model Clauses (as applicable from Annexure-III) shall be furnished by bidders along with bid documents.
20. CIF is not available for this package.
  21. PVC is not applicable.
  22. The Evaluation Currency for this tender shall be INR.
  23. Overall (%) variation in contract values (due to changes in the scope) shall be Cl. No. 6.0 of GCC, Rev. 07
  24. For bidders (who are not registered with BHEL-PEM) -Online Registration Portal is operational in BHEL. Registration in BHEL-PEM is not mandatory for this tender. However, Non-registered Vendors, who wish to apply for registration with BHEL-PEM, can apply through Online Registration Portal available at [www.bhelpem.com](http://www.bhelpem.com) → vendor section → Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration may be uploaded on the website and submit the application for registration.
  25. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only ([www.pem.bhel.com](http://www.pem.bhel.com), [www.bhel.com](http://www.bhel.com) & <https://eprocurebhel.co.in>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement (NIC) Portal is available at website i.e. <https://eprocurebhel.co.in>.
  26. If any bidder uploads price bid in the unpriced section (techno-commercial attachment page) of the tender in e- Procurement (NIC portal), in that case bidder(s) shall only be responsible for such mistake and any consequences thereof. Hence all bidders are requested to be more careful at the time of uploading the Unpriced and Price Bid for Part-I and Part-II respectively to avoid mismatch.
  27. Bidders to note that "This item /package/system falls under the list of items defined in para 3 of ministry of finance guideline dated 20.09.16 (procurement of items related to public safety, health, critical security operations and Equipment etc.) & hence criteria of prior experience /turnover shall be same for all bidders including start-up /MSME".
  28. Due to COVID-19 pandemic condition prevailing in the country, BHEL/PEM may go for Remote Inspection of Offered items, if required. Vendors are requested to be equipped with the facilities/gadgets as indicated in the guidelines available at <https://pem.bhel.com/Documents/VendorSection/Vendor/Guidelines.pdf> to take up the inspection REMOTELY.
  29. 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.
  30. In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of

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lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

31. **Performance Bank Guarantee:** Successful bidder shall submit performance security @5% of Total Ex-Works prices of order required for execution of the contract as per Cl. No. 11.0 of GCC rev-07, inline with guarantee term of NIT. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT /contract, from the bills along with due interest.
32. All other terms and conditions of SCC of project, NIT & GCC (Rev 07) shall be applicable for the subject package.
33. Bidders who are participating in this tender please note that GeM seller ID is mandatory before placement of order.
34. **Evaluation Conditions: (Reverse Auction)** -BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking. "Vendors to note that above RA clause will supersede clause no 13 of "Instruction to Bidders" of GCC Rev 07".
35. Detailed offers are to be uploaded including the following along with the Price schedule as per BHEL format enclosed with NIT: -
  - Acceptance of BHEL-PEM GCC (Rev.-07)
  - Acceptance of Special Conditions of Contract (SCC Rev. 01) for the project.
  - Technical & Commercial Deviations, if any along with Cost of withdrawal in Annexure-II of GCC Rev 07.
  - Technical Pre-Qualifying Requirement (PQR) .
  - Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of terms & instructions conveyed.
  - Un-Priced price format duly filled in 'Quoted' or 'Q' in each column/row.
  - Filled Format of Certification reg. Local content

All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.

Thanking You

❖ Please note all correspondence from BHEL-PEM before part – I opening, shall also be part of NIT.

Yours faithfully,

For and on behalf of BHEL-PEM

Saumya Pandey  
(DY MANAGER/PG-I/BHEL-PEM)

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Regd. Office  
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**Enclosures:**

1. Technical Specification No. **PE-TS-475-558-E006, Rev-0**
2. Technical PQR
3. Delivery completion cum Drawings/documents submission Schedule (Annexure –A)
4. Unpriced format (Annexure-I)
5. Unpriced Deviation schedule (Annexure-II)
6. Format of Certification Reg. Local content
7. Format for model certificate
8. SCC Rev0

| 2X660MW THDC KHURJA-TG PROJECT        |             |  |      |          |       |         |          |                    |
|---------------------------------------|-------------|--|------|----------|-------|---------|----------|--------------------|
| LIGHTING FIXTURES,LAMPS & MISC. ITEMS |             |  |      |          |       |         |          |                    |
| BOQ cum Price Schedule (Main Supply)  |             |  |      |          |       |         |          |                    |
| ANNEXURE-I                            |             |  |      |          |       |         |          |                    |
| SR. No.                               | ITEM CODE   | ITEM DESCRIPTION                                       | UOM  | Quantity | LOT-1 | FREIGHT | GST %age | Quoted/ Not quoted |
| <b>1.0</b>                            |             | <b>Lighting Luminaires (complete with accessories)</b> |      |          |       |         |          |                    |
| 1.01                                  | 558-12118-A | Luminaire Type FC06 (LED)                              | Nos. | 995      | 796   |         |          |                    |
| 1.02                                  | 558-12195-A | Luminaire Type FC07 (LED)-DC                           | Nos. | 156      | 125   |         |          |                    |
| 1.03                                  | 558-12196-A | Luminaire Type FC33 (LED)-DC                           | Nos. | 35       | 28    |         |          |                    |
| 1.04                                  | 558-12197-A | Luminaire Type FC34 (LED)-DC                           | Nos. | 126      | 100   |         |          |                    |
| 1.05                                  | 558-12119-A | Luminaire Type FC26 (LED)                              | Nos. | 116      | 93    |         |          |                    |
| 1.06                                  | 558-12140-A | Luminaire Type FC30 (LED)                              | Nos. | 319      | 255   |         |          |                    |
| 1.07                                  | 558-12121-A | Luminaire Type FC32 (LED)                              | Nos. | 68       | 55    |         |          |                    |
| 1.08                                  | 558-12120-A | Luminaire Type FC81 (LED)                              | Nos. | 314      | 251   |         |          |                    |
| 1.09                                  | 558-12198-A | Luminaire Type SB11 (LED)                              | Nos. | 60       | 48    |         |          |                    |
| 1.1                                   | 558-12199-A | Luminaire Type SB02 (LED)                              | Nos. | 496      | 397   |         |          |                    |
| 1.11                                  | 558-12200-A | Luminaire Type SB03 (LED)                              | Nos. | 173      | 140   |         |          |                    |
| 1.12                                  | 558-12201-A | Luminaire Type SF63 (LED)                              | Nos. | 1        | 1     |         |          |                    |
| 1.13                                  | 558-12202-A | Luminaire Type SF64 (LED)                              | Nos. | 12       | 10    |         |          |                    |
| 1.14                                  | 558-12203-A | Luminaire Type SF66 (LED)                              | Nos. | 18       | 15    |         |          |                    |
| 1.15                                  | 558-12204-A | Luminaire Type SF61 (LED)                              | Nos. | 10       | 8     |         |          |                    |
| 1.16                                  | 558-12122-A | Luminaire Type SS62 (LED)                              | Nos. | 16       | 13    |         |          |                    |
| 1.17                                  | 558-12123-A | Luminaire Type SS63 (LED)                              | Nos. | 19       | 15    |         |          |                    |
| 1.18                                  | 558-12205-A | Luminaire Type SW41 (LED)                              | Nos. | 30       | 24    |         |          |                    |
| 1.19                                  | 558-12206-A | Luminaire Type SW42 (LED)                              | Nos. | 64       | 51    |         |          |                    |
| 1.20                                  | 558-12207-A | Luminaire Type MW96 (LED)                              | Nos. | 126      | 100   |         |          |                    |
| 1.21                                  | 558-12224-A | LUMINAIRES TYPE DOWNLIGHTER 15-18W(LED)                | Nos. | 534      | 427   |         |          |                    |
| 1.22                                  | 558-12228-A | Cove Light (LED)                                       | Nos. | 90       | 72    |         |          |                    |
| 1.23                                  | 558-12223-A | Luminaire Type dimmable FC30 (LED)                     | Nos. | 172      | 138   |         |          |                    |
| 1.24                                  | 558-12225-A | LUMINAIRE DIMABLE DOWNLIGTER 15-18W(LED)               | Nos. | 25       | 20    |         |          |                    |
| <b>2.0</b>                            |             | <b>Switch boxes for individual control of circuits</b> |      |          |       |         |          |                    |
| 2.01                                  | 558-12087-A | Type SWB1  | Nos. | 239      | 191   |         |          |                    |
| 2.02                                  | 558-12088-A | Type SWB2  | Nos. | 40       | 32    |         |          |                    |
| 2.03                                  | 558-12089-A | Type SWB3  | Nos. | 27       | 22    |         |          |                    |
| 2.04                                  | 558-12099-A | Type SWB4  | Nos. | 15       | 12    |         |          |                    |
| 2.05                                  | 558-12100-A | Type SWB5  | Nos. | 30       | 24    |         |          |                    |
| <b>3.0</b>                            |             | <b>Junction boxes</b>                                  |      |          |       |         |          |                    |
| 3.01                                  | 558-12026-A | Type JB-F  | Nos. | 2830     | 2264  |         |          |                    |
| 3.02                                  | 558-12027-A | Type JB-FE   | Nos. | 314      | 251   |         |          |                    |
| <b>4.0</b>                            |             | <b>Receptacles</b>                                     |      |          |       |         |          |                    |
| 4.01                                  | 558-12079-A | Type RA  | Nos. | 165      | 132   |         |          |                    |
| 4.02                                  | 558-12080-A | Type RA (Flame proof)                                  | Nos. | 38       | 30    |         |          |                    |
| 4.03                                  | 558-12081-A | Type RB  | Nos. | 190      | 152   |         |          |                    |
| 4.04                                  | 558-12082-A | Type RC  | Nos. | 26       | 21    |         |          |                    |
| 4.05                                  | 558-12083-A | Type RD  | Nos. | 1        | 1     |         |          |                    |
| <b>5.0</b>                            |             | <b>Fans</b>  |      |          |       |         |          |                    |
| 5.01                                  | 558-12010-A | Celling fans 1200 mm sweep                             | Nos. | 2        | 2     |         |          |                    |
| 5.02                                  | 558-12094-A | Pedestal Fan   | Nos. | 5        | 4     |         |          |                    |
| <b>6.0</b>                            |             | <b>Emergency lighting Units</b>                        |      |          |       |         |          |                    |

| 2X660MW THDC KHURJA-TG PROJECT  |                    |   |             |           |                          |         |          |                    |
|---|--------------------|---|-------------|-----------|--------------------------|---------|----------|--------------------|
| LIGHTING FIXTURES,LAMPS & MISC. ITEMS   |                    |   |             |           |                          |         |          |                    |
| BOQ cum Price Schedule (Main Supply)  |                    |   |             |           |                          |         |          |                    |
| ANNEXURE-I  |                    |   |             |           |                          |         |          |                    |
| SR. No.   | ITEM CODE          | ITEM DESCRIPTION  | UOM         | Quantity  | LOT-1                    | FREIGHT | GST %age | Quoted/ Not quoted |
| 6.01  | 558-12018-A        | Emergency lighting Units With Lead-Acid/ Ni-Cd battery and 2x9W flurescent lamp | Nos.        | 10        | 8                        |         |          |                    |
| <b>7.0</b>  |                    | <b>Flexible conduit, TERNE COATED</b>   |             |           |                          |         |          |                    |
| 7.01  | 558-12253-A        | 20 mm dia flexible electrogavanised PVC coated conduits, 1.6 mm thick           | Mtrs.       | 4500      | 3600                     |         |          |                    |
| <b>8.0</b>  |                    | <b>24V supply module &amp; lamps unit complete with all accessories</b>         |             |           |                          |         |          |                    |
| 8.01  | 558-12002-A        | Fix Type 24V supply modules   | Nos.        | 10        | 8                        |         |          |                    |
| 8.02  | 558-12003-A        | Portable Type 24V supply modules  | Nos.        | 5         | 4                        |         |          |                    |
| 8.03  | 558-12078-A        | Portable halogen lamp unit  | Nos.        | 5         | 4                        |         |          |                    |
| 8.04  | 558-12105-A        | 5A, 24V industrial type sockets   | Nos.        | 20        | 16                       |         |          |                    |
| <b>9.0</b>  | <b>558-12019-A</b> | <b>EXIT SIGN</b>  | <b>Nos.</b> | <b>87</b> | <b>70</b>                |         |          |                    |
| <b>10.0</b>   |                    | <b>GREEN BUILDING COMPLIANCE</b>  |             |           |                          |         |          |                    |
| <b>10.1</b>   | 558-12139-A        | Occupancy sensor  | Nos.        | 150       | 120                      |         |          |                    |
| <b>10.2</b>   | 558-12101-A        | LIGHTING SENSOR SYSTEM  | Nos.        | 1         | 1                        |         |          |                    |
| <b>10.3</b>   | 558-12102-A        | LIGHTING DIMMER SYSTEM  | Nos.        | 1         | 1                        |         |          |                    |
| <b>10.4</b>   | 558-12226-A        | CONTROL SYSTEM (GREEN BUILDINGS)  | Nos.        | 1         | 1                        |         |          |                    |
|   |                    |   |             |           |                          |         |          |                    |
| <b>11.0</b>   |                    | <b>Ladder</b>   |             |           |                          |         |          |                    |
| 11.01   | 558-12091-A        | Wheel mounted adjustable from 5M to 10M aluminium ladder                        | Nos.        | 1         | 1                        |         |          |                    |
| 11.02   | 558-12022-A        | Free standing adjustable from 5M to 10M aluminium ladder                        | Nos.        | 1         | 1                        |         |          |                    |
| <b>12.0</b>   | <b>558-12017-A</b> | <b>E&amp;C SPARES</b>   |             |           | <b>Refer Annexure-II</b> |         |          |                    |
|   |                    |   |             |           |                          |         |          |                    |
| <b>Notes :</b>  |                    |   |             |           |                          |         |          |                    |
| 1. Container as per Specification are to be supplied along with first supplies. The price of container is deemed to be included in package price. No separate charges shall be payable.                           |                    |   |             |           |                          |         |          |                    |
| 2. The material shall be supplied in LOTS. LOTS shall be released progressively based on approved conduit layout of different areas and project requirement.  |                    |   |             |           |                          |         |          |                    |
| 3. Lighting system design charges are deemed to be included in the price of above items. No separate charges for design activity will be payable.   |                    |   |             |           |                          |         |          |                    |
| 4. For item at Sl. No 1.0 above "Lighting Luminaires", the above quantity variation shall be calculated at the total order value against item at Sl. No 1.0 (i.e. sum of order value of sub items 1.01 to 1.24)." |                    |   |             |           |                          |         |          |                    |
| 5. Cove light shall be 5 metre per piece.   |                    |   |             |           |                          |         |          |                    |



| 2X660MW THDC KHURJA-TG                |   |       |          |         |          |                    |
|---------------------------------------|---|-------|----------|---------|----------|--------------------|
| LIGHTING FIXTURES,LAMPS & MISC. ITEMS |   |       |          |         |          |                    |
| BOQ cum Price Schedule (E&C SPARES)   |   |       |          |         |          |                    |
| ANNEXURE-II                           |   |       |          |         |          |                    |
| SR. No.                               | ITEM DESCRIPTION  | UOM   | Quantity | FREIGHT | GST %age | Quoted/ Not quoted |
| <b>1.0</b>                            | <b>Lighting Luminaires (complete with accessories)</b>                          |       |          |         |          |                    |
| 1.01                                  | Luminaire Type FC06 (LED)   | Nos.  | 1        |         |          |                    |
| 1.02                                  | Luminaire Type FC07 (LED)-DC  | Nos.  | 1        |         |          |                    |
| 1.03                                  | Luminaire Type FC33 (LED)-DC  | Nos.  | 1        |         |          |                    |
| 1.04                                  | Luminaire Type FC34 (LED)-DC  | Nos.  | 1        |         |          |                    |
| 1.05                                  | Luminaire Type FC26 (LED)   | Nos.  | 1        |         |          |                    |
| 1.06                                  | Luminaire Type FC30 (LED)   | Nos.  | 1        |         |          |                    |
| 1.07                                  | Luminaire Type FC32 (LED)   | Nos.  | 1        |         |          |                    |
| 1.08                                  | Luminaire Type FC81 (LED)   | Nos.  | 1        |         |          |                    |
| 1.09                                  | Luminaire Type SB11 (LED)   | Nos.  | 1        |         |          |                    |
| 1.1                                   | Luminaire Type SB02 (LED)   | Nos.  | 1        |         |          |                    |
| 1.11                                  | Luminaire Type SB03 (LED)   | Nos.  | 1        |         |          |                    |
| 1.12                                  | Luminaire Type SF63 (LED)   | Nos.  | 1        |         |          |                    |
| 1.13                                  | Luminaire Type SF64 (LED)   | Nos.  | 1        |         |          |                    |
| 1.14                                  | Luminaire Type SF66 (LED)   | Nos.  | 1        |         |          |                    |
| 1.15                                  | Luminaire Type SS62 (LED)   | Nos.  | 1        |         |          |                    |
| 1.16                                  | Luminaire Type SS63 (LED)   | Nos.  | 1        |         |          |                    |
| 1.17                                  | Luminaire Type SW41 (LED)   | Nos.  | 1        |         |          |                    |
| 1.18                                  | Luminaire Type SW42 (LED)   | Nos.  | 1        |         |          |                    |
| 1.19                                  | Luminaire Type MW96 (LED)   | Nos.  | 1        |         |          |                    |
| 1.20                                  | Downlighter (LED)   | Nos.  | 1        |         |          |                    |
| 1.21                                  | Luminaire Type 30-40 W (LED) FC 30 with Dimmable ballast                        | Nos.  | 9        |         |          |                    |
| 1.23                                  | Downlighter (LED) dimmable  | Nos.  | 2        |         |          |                    |
| <b>2.0</b>                            | <b>Switch boxes for individual control of circuits</b>                          |       |          |         |          |                    |
| 2.01                                  | Type SWB1   | Nos.  | 1        |         |          |                    |
| 2.02                                  | Type SWB2   | Nos.  | 1        |         |          |                    |
| 2.03                                  | Type SWB3   | Nos.  | 2        |         |          |                    |
| 2.04                                  | Type SWB4   | Nos.  | 1        |         |          |                    |
| <b>3.0</b>                            | <b>Junction boxes</b>   |       |          |         |          |                    |
| 3.01                                  | Type JB-F   | Nos.  | 1        |         |          |                    |
| 3.02                                  | Type JB-FE  | Nos.  | 1        |         |          |                    |
| <b>4.0</b>                            | <b>Receptacles</b>  |       |          |         |          |                    |
| 4.01                                  | Type RA   | Nos.  | 1        |         |          |                    |
| 4.02                                  | Type RA (Flame proof)   | Nos.  | 1        |         |          |                    |
| 4.03                                  | Type RB   | Nos.  | 1        |         |          |                    |
| 4.04                                  | Type RC   | Nos.  | 1        |         |          |                    |
| 4.05                                  | Type RC (Flame proof)   | Nos.  | 1        |         |          |                    |
| <b>5.0</b>                            | <b>Fans</b>   |       |          |         |          |                    |
| 5.01                                  | Celling fans 1200 mm sweep  | Nos.  | 1        |         |          |                    |
| 5.02                                  | Pedestal Fan  | Nos.  | 1        |         |          |                    |
| <b>6.0</b>                            | <b>Emergency lighting Units</b>   |       |          |         |          |                    |
| 6.01                                  | Emergency lighting Units With Lead-Acid/ Ni-Cd battery and 2x9W flurescent lamp | Nos.  | 1        |         |          |                    |
| <b>7.0</b>                            | <b>Flexible conduit - TERNE COATED</b>  |       |          |         |          |                    |
| 7.01                                  | Flexible conduit - TERNE COATED   | Mtrs. | 1        |         |          |                    |
| <b>8.0</b>                            | <b>24V supply module &amp; lamps unit complete with all accessories</b>         |       |          |         |          |                    |

| 2X660MW THDC KHURJA-TG                |                                  |      |          |         |          |                    |
|---------------------------------------|----------------------------------|------|----------|---------|----------|--------------------|
| LIGHTING FIXTURES,LAMPS & MISC. ITEMS |                                  |      |          |         |          |                    |
| BOQ cum Price Schedule (E&C SPARES)   |                                  |      |          |         |          |                    |
| ANNEXURE-II                           |                                  |      |          |         |          |                    |
| SR. No.                               | ITEM DESCRIPTION                 | UOM  | Quantity | FREIGHT | GST %age | Quoted/ Not quoted |
| 8.01                                  | Fix Type 24V supply modules      | Nos. | 1        |         |          |                    |
| 8.02                                  | Portable Type 24V supply modules | Nos. | 1        |         |          |                    |
| 8.03                                  | Portable halogen lamp unit       | Nos. | 1        |         |          |                    |
| 8.04                                  | 5A, 24V industrial type sockets  | Nos. | 1        |         |          |                    |
| <b>9.0</b>                            | EXIT SIGN                        | Nos. | 1        |         |          |                    |
| <b>10.0</b>                           | Occupancy sensor                 | Nos. | 1        |         |          |                    |

**2X660MW THDC KHURJA-TG PROJECT**  
**LIGHTING FIXTURES,LAMPS & MISC. ITEMS**  
**BOQ cum Price Schedule**  
**(SUPERVISION OF ERECTION & COMMISSIONING)**  
**ANNEXURE-III**

| SR. No.    | ITEM CODE          | ITEM DESCRIPTION                                   | UOM   | Quantity | UNIT<br>RATE(INR) |
|------------|--------------------|--|-------|----------|-------------------|
| <b>1.0</b> | <b>558-12086-A</b> | <b>SUPERVISION OF ERECTION &amp; COMMISSIONING</b> |       |          |                   |
| 1.01       |                    | CHARGES PER VISIT                                  | VISIT | 5        | 20000             |
| 1.02       |                    | MANDAYS CHARGES                                    | DAYS  | 40       | 5000              |

Notes :

1. For supervision of E&C 5(Five) Visits and 40 (Forty) Mandays to be considered. The prices shall be inclusive of charges of Airfare (To & Fro), Boarding, Lodging, Medical, Insurance etc.

2. Amount payable per visit = Visit charges as per Sl. No 1.01 above (+) Unit Price for mandays charges as per Sl. No 1.02 above (x) No. of mandays at site (to be certified by BHEL Site)

3. The total Mandays mentioned for supervision of E&C also include Mandays of inspection of installation for completeness and correctness of work.

4. Unit rate for 1.01 and 1.02 above shall remain firm. Supervision of E&C rate shall not be considered for price evaluation.

5. Nos. of visit and Mandays for supervision of E&C may increase based on project requirement.

**ANNEXURE - II****SCHEDULE OF TECHNICAL AND COMMERCIAL DEVIATION****PROJECT:-2X660MW KHURJA SUPER THERMAL POWER PROJECT (TG)****PACKAGE:-Lighting Fixtures, Lamps & Misc. items****ENQUIRY NO.: PE/PG/THD/E-6763/2021 dated 16.09.2021****NAME OF VENDOR:-**

| SL NO | VOULME/ SECTION | PAGE NO. | CLAUSE NO. | TECHNICAL SPECIFICATION/ TENDER DOCUMENT | COMPLETE DESCRIPTION OF DEVIATION | COST OF WITHDRAWAL OF DEVIATION | REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWAL OF DEVIATION IS APPLICABLE | NATURE OF COST OF WITHDRAWAL OF DEVIATION (POSITIVE/ NEGATIVE) | REASON FOR QUOTING DEVIATION |
|-------|-----------------|----------|------------|--|-----------------------------------|---------------------------------|--|--|------------------------------|
|-------|-----------------|----------|------------|--|-----------------------------------|---------------------------------|--|--|------------------------------|

**TECHNICAL DEVIATIONS**

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**COMMERCIAL DEVIATIONS**

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**PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE**

| NAME | DESIGNATIONS | SIGN & DATE |  |
|------|--------------|-------------|--|

**NOTES:**

1. For self manufactured items of bidder, cost of withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. For directly dispatchable items, cost of withdrawal of deviation will be applicable on the basic price including taxes, duties & freight.
3. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.
4. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
5. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever
6. Bidder shall furnish price copy of above format along with price bid.
7. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
8. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
9. For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/ E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawal of
10. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
11. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
12. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been
13. In case nature of cost of withdrawal (**positive/negative**) is not specified it shall be assumed as positive.
14. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.

### Standard Delivery Schedule : Annexure A to NIT

| Sl. No. | Package Code | Package name                          | DEPTT | BHEL Drawing No    | Drawing Title   | Primary/Secondary | Drq Sch for Vendors  | Standard Delivery Terms for Supply Portion  | Scope of Services, (if any, as per Indent) and corresponding schedule for rendering the services   |
|---------|--------------|---------------------------------------|-------|--------------------|---|-------------------|--|---|--|
| 30      | 558-12000-A  | LIGHTING FIXTURES, LAMPS & MISC ITEMS | ELECT | PE-V0-475-558-E101 | OGA of equipments such as fixture, SBs, JB, Receptacles, free standing ladder, Emergency exit sign, wheel mounted ladder, ceiling fans, ELU, etc. | Primary           | R-O within 28 days of PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.        | For Lot-1: Within 4 months from the approval of last applicable primary drawing/document for the released items in lot-1 or manufacturing clearance from BHEL, whichever is later, subjected to drawing/document submission/re-submission schedule as stipulated, delay in initial submission (if any) of last submitted applicable primary drawing/document and/or delay in re-submissions of last applicable approved primary drawing/document (with reduction of overlapping period) shall be reduced from delivery period of four months. Delay in BHEL's comments/approval of last applicable approved primary drawing/document beyond 18 days shall also be considered for delay analysis.                              | Demonstration at site by vendor:<br><br>Vendor to depute its service engineer for respective site activity within 15 days from BHEL's intimation (for deputing service engineer) for such site activity.   |
|         |              |                                       |       | PE-V0-475-558-E102 | Datasheet of lamps, CFL, Fluorescent tube, PVC coated conduit   | Primary           |  |   |  |
|         |              |                                       |       | PE-V0-475-558-E901 | MQP FOR LUMINARIES  | Primary           |  |   |  |
|         |              |                                       |       | PE-V0-475-558-E905 | MQP FOR MISCELLANEOUS ITEMS   | Primary           |  |   |  |
|         |              |                                       |       | PE-V0-475-558-E201 | Lighting design Calculation   | Secondary         | Within 3 weeks from the date of BHEL input drawing & re- submission within   |   |  |
|         |              |                                       |       | PE-V0-475-558-E301 | Lighting Layout   | Secondary         |  |   |  |
|         |              |                                       |       | PE-V0-475-558-E401 | Conduit Layout  | Secondary         | Within 15 days from the approval of respective LLOs & re- submission within 15 days of BHEL comments. BHEL shall furnish comments / approval on each submission within 18 days from receipt. | Delivery of subsequent lots: within 4 months from approval of last applicable primary drawing/document (of items released first time in present lot only) or lot clearance by BHEL, whichever is later. This is subjected to drawing/document submission/re-submission schedule as stipulated, delay in initial submission (if any) of last submitted applicable primary drawing/document and/or delay in re-submissions of last applicable approved primary drawing/document (with reduction of overlapping period) shall be reduced from delivery period of four months. Delay in BHEL's comments/approval of last applicable approved primary drawing/document beyond 18 days shall also be considered for delay analysis. | For delay in deputing service engineer, LD on site activities portion shall be applicable @ ¼% of the total site activities portion contract value (excluding element of taxes) per week or part thereof, with applicable GST. However, total LD (supply + site activities) shall be limited to 10% of cumulative total contract value excluding taxes and freight (supply + site activities). |
|         |              |                                       |       | PE-V0-475-558-E103 | MOUNTING ARRANGEMENT OF LIGHTING FIXTURES   | Secondary         | Along with respective OGA  |   |  |
|         |              |                                       |       | PE-V0-475-558-E104 | TYPE TEST REPORTS FOR LIGHTING FIXTURES   | Secondary         | Within 2 months from date of PO/ within 1 week of type test conduction (as applicable)   |   |  |
|         |              |                                       |       | PE-V0-475-558-E105 | FIELD QUALITY PLAN OF LIGHTING FIXTURES   | Secondary         | Within 3 months from PO  |   |  |
|         |              |                                       |       | PE-V0-475-558-E106 | MOUNTING ARRANGEMENT OF MISCELLANEOUS ITEMS   | Secondary         | Along with respective OGA  |   |  |

**Notes :**

- The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.
- The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.
- Wherever schedule of drawings/documents submission / re-submission is stipulated in the technical Specifications, same shall be superseded by delivery specified in NIT.
- Vendor to start manufacturing activities only after obtaining specific manufacturing clearance from BHEL Purchase group.
- In case BHEL manufacturing clearance date is later than the date of Cat-1 approval of Primary drawing/documents, then the contractual delivery period will be calculated by setting off the time gap between Cat-1 approval date of Primary drawing/documents and the manufacturing clearance date, from any delay by vendor in submission/re-submission of Primary drawing/documents.