

**BHARAT HEAVY ELECTRICALS LIMITED
TRANSMISSION BUSINESS GROUP
SUBCONTRACTS MANAGEMENT
10TH Floor, Plot no.:- C-20, 1A/1, Joy towers,
C Block, Phase 2, Industrial Area Sector-62,
Noida, Distt. Gautambudh Nagar, UP-201309**



TENDER DOCUMENTS

FOR

RECEIPT OF EQUIPMENT/MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400 KV AIS SWITCHYARD AT 5 X 800 MW YADADRI THERMAL POWER STATION IN TELANGANA

CUSTOMER

M/S TELANGANA STATE POWER GENERATION CORPORATION LIMITED (TSGENCO)

TENDER SPEC. NO.: TBSM/YADADRI/ETC/TENDER/21-22

DATE: 22.06.2021

TRANSMISSION BUSINESS GROUP
SUBCONTRACTS MANAGEMENT
INDEX

Sl. No.	Description	No. of Pages
1.0	Notice Inviting Tender	12
2.0	Pre-Qualifying Requirements	04
3.0	Project Information/ BHEL's Contacts	01
4.0	Health, Safety & Environment specification (Doc. No.- TBSM/HSE/NIT-01, Rev-00 Date 03.05.2019)	18
5.0	Condition of Contract for ETC Works	106
6.0	Annexure to conditions of contract for ETC Works	27
7.0	Annexure A of Clause No M of Annexure to GCC for ETC -“BHEL Conciliation Scheme”	11
8.0	Bill Of Quantity Cum price schedule	13
9.0	Price bid format :- “if bid submitted through e mail platform as per clause no.3”	01
	Price Bid Format: - To be filled by the Bidder Online through https://eprocurebhel.co.in .	01
10.0	Technical Documents	
10.1	List of documents- Annexure-I	
	Sl. No.	Document No.
		Description
		No. of pages
	1	TB-2-387-510-001
	2	TB-0-387-510-002 (Sheet 1 of 2)
	3	TB-0-387-510-002 (Sheet 2 of 2)
	4	TB-3-387-316-008
10.2	5	TB-3-387-316-009
	6	TB-0-387-316-005
	7	TB-0-387-316-013
	List of Documents - Annexure-2	
	Sl. No.	Document No.
		Description
		No. of pages
	1	Notes for ETC BOQ
	Annexure-A	List of mandatory Spares
	Annexure-1A	Typical details of cable trays & Accessories
	Annexure-2A	Typical Rack Arrangement details
	2	Volume: V-B, Section-IX
	3	Volume: V-B, Section-X
		Technical specification for Erection-Indoor and Outdoor Electrical Equipment

	4	13A06-DWG-E-0400, Rev. A	Notes and Details- Cabling	35	
	5	13A06-DWG-E-0600, Rev. A	Notes and Details- Grounding System	26	
	6	13A06-DWG-E-1000, Rev. A	Notes and Details- Lightning Protection	13	
	7	Annexure-3	Procedure of welding of Aluminium Buses	4	
	8	Annexure-B	Specification for Fire proof Sealing System	10	
	9	Annexure-F	N2 filling/ vacuuming/ purging and heating (if required) as per BHEL Bhopal procedure	2	
11	<i>Integrity Pact</i>				05
12	No Deviation Certificate				01
13	Declaration for relation in BHEL				01
14	E payment Format				01



BHARAT HEAVY ELECTRICALS LIMITED

TRANSMISSION BUSINESS GROUP

SECTOR-62, NOIDA -201309

e-mail:-tbsm@bhel.in

NOTICE INVITING TENDER

REF.: TBSM/YADADRI/ETC/TENDER/21-22

DATE: 22.06.2021

SUB: TENDER FOR "RECEIPT OF EQUIPMENT/MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400 KV AIS SWITCHYARD AT 5 X 800 MW YADADRI THERMAL POWER STATION IN TELANGANA"

Dear Sirs,

1. Sealed tenders are invited for the following:

NAME OF WORK	TIME OF COMPLETION	EARNEST MONEY DEPOSIT (Rs.)	TENDER SUBMISSION DATE AND TIME	TENDER OPENING DATE & TIME
Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV AIS Switchyard at 5 X 800 MW Yadadri Thermal Power Station in Telangana	i) Completion period for ETC work shall be within 17 months (i.e Dec'22) from the date of Issue of LOI ii) start up power required within 08 months (i.e Mar'22) from date of issue of LOI	Rs. 11,39,439/- As per Annexure to conditions of contract for erection works	02.07.2021 14.30 hrs.	02.07.2021 15.30 hrs. (Technical bid only) and Price bid opening date will be intimated later to Techno commercially acceptable parties

2. Bidder **has** to submit offer directly through E-PROCUREMENT MODE. Bidder may visit <https://eprocurebhel.co.in>

Procedure for Submission of Tenders through e tendering: The tender is also floated online through our E-Procurement Site <https://eprocurebhel.co.in> . The bidder may respond by submitting their offer online in our e-Procurement platform at <https://eprocurebhel.co.in>

Offers are invited in two-parts only.

Documents Comprising the e-Tender

The tender shall be submitted online EXCEPT EMD (which shall be submitted in physical form (as described in NIT cl. No.1) above as mentioned below:

a. Technical Bid (Un priced Tender)

All Technical details (eg. Eligibility Criteria requested (as mentioned below)) should be attached in e-tendering module, failing which the tender stands invalid & may be REJECTED. Bidders shall furnish the following information along with technical tender (preferably in pdf format):

- Earnest money Deposit (EMD) furnished in accordance with NIT Clause 4.0
- Technical Bid (without indicating any prices).

b. Price Bid:

- Prices are to be quoted in the attached Price Bid format online on e-tender portal.
- The price should be quoted for the accounting unit indicated in the e-tender document.

- iii. Note: It is the responsibility of tenderer to go through the Tender document to ensure furnishing all required documents in addition to above, if any. Any deviation would result in REJECTION of tender and would not be considered at a later stage at any cost by BHEL.
 - iv. A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
 - v. A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- c. Uploading of the price bid in prequalification bid or technical bid may RESULT IN REJECTION of the tender.
- d. Tenders shall be uploaded with all relevant PDF/zip format. The relevant tender documents should be uploaded by an authorized person having Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION digital signature certificate (DSC).
3. **Bidders may also submit their bids through unique common e mail ID.** Earnest money Deposit (EMD) furnished in accordance with NIT Clause 4.0

Procedure to submit the bid through E mail ID are as below:-

- A) The bidder may also allowed to submit their bid /offers to the common e-mail addresses as below **(Without copy to any other e mails).** Following procedure may be followed by bidders in this regard.

A.1 Bidders have to submit their bid into two parts: - Technical Bid and Price bid in two separate folders. The folders names shall be clearly specified as technical bid & Price bid in e-mail folder.

A.2 Folders of Technical Bid and Price Bids are to be submitted separately at two different e-mail ids as per procedure mentioned below:

A.2.1 Submission of Technical Bid

- i) Folder containing Technical Bid shall be submitted to Common E Mail Address : tbsmtenderbox@bhel.in.
- ii) The subject of the e-mail for offer submission shall be clearly specified as “ ETC work of **400 KV AIS SWITCHYARD at 5 X 800 MW Yadadri TPP** “Enquiry No: - **TBSM/YADADRI/ETC/TENDER/21-22”**
- iii) All the works credentials relevant for meeting PQR shall be submitted in Technical bid folder.
- iv) The technical bid shall be in **Pdf or in Zip forms and the capacity of the folder should not be more than 10 MB.**
- v) If the capacity of the folder shall be more than 10 MB, the technical bid folder shall be split into like the folders “Technical **Bid- Part-1, Part-2, part -3, part4** and shall be submitted through subsequent e mails mentioning Mail – **part-1 of total nos of mail , Mail-Part-2 of total nos of e mails**
- vi) Offers sent to any other e-mail IDs shall not considered for evaluation purpose.

- vii) Please note that Price Bid Folder is not to be submitted at E Mail id tbsmtenderbox@bhel.in. Price bid is to be submitted at separately as per details given below.

A.2.2 Submission of Price Bid:-

- i) Folder containing **Price Bid** shall be submitted to Common E Mail Address:
A) tbsmtender.pricebidbox@bhel.in.
- viii) The subject of the e-mail for offer submission shall be clearly specified as “**PRICE BID** for “**400 KV AIS SWITCHYARD at 5 X 800 MW Yadadri TPP** “Enquiry No: - **TBSM/YADADRI/ETC/TENDER/21-22**”

Same shall be submitted simultaneously along with the Technical bid.

- ii) The price bid shall be in Pdf or in Zip forms and the capacity of the folder should not be more than 10 MB.
- iii) Price bid sent to any other e-mail IDs shall not considered for evaluation purpose.

A.2.3 Summary:-

Thus from above, bidders may clearly note that for submission of complete offer, bidders have to use below mentioned emails:-

- (a) Mail For Technical Bid on :- tbsmtenderbox@bhel.in
(b) Mail for Price Bid on:- tbsmtender.pricebidbox@bhel.in

- A.2.4 Apart from above e mails, Bidders are requested to “**intimate the submission of their bid without attaching any tender documents**” to the e- mail “tbsm@bhel.in” . Bidders may also inform over phone to the concerned executive on the “date of opening of the tender” in this regard.

- A.2.5 In case, “the bid of any bidder was left to open / process” due to non-availability of the intimations as mentioned in point no. – A.2.4 above, BHEL shall not be responsible and their bid shall not be considered for further processing.

BHEL’s decision for all the points mentioned in “A” under head “**Procedure to submit the bid through E mail ID** shall be final in case of any disputes and is binding to the bidders.

4. **Tender must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described in “Annexure to the Conditions of contract for erection work “ which shall be part of the Technical Bid.**

In case of E-Tenders, no paper bids shall be accepted, therefore, the scanned copy of the Banker’s Cheque/ Demand Draft/ Pay Order/ Details of payment made through Electronic Fund Transfer/ Fixed Deposit Receipt (FDR) / Bank Guarantee should be uploaded in the E-Procurement Portal and hard copy of the same should reach to following address at before the due date and time of bid submission. BHEL shall not be responsible for postal or any other delays in this regard.)

TENDER SPEC. NO.: TBSM/YADADRI/ETC/TENDER/21-22 DATE: 22.06.2021
TO,
Mukesh Paswan
AGM (TBSM)
BHARAT HEAVY ELECTRICALS LIMITED,
TRANSMISSION BUSINESS GROUP,
10TH Floor, Plot no.:- C-20, 1A/1, Joy towers,
C Block, Phase 2, Industrial Area
Sector-62, Noida, Distt. Gautambudh Nagar, UP-201309
TELEPHONE: 0120-6748454, 6748575,9560989092, 9650299229 FAX: 0120-6748579
E-mail: tbsm@bhel.in

5. **Bidders may please note that no other mode of bid submission shall be considered for evaluation apart from Clause no. 02 to 04 mentioned above.**
6. The prospective bidders who have downloaded the tender documents from our website are requested to send their acknowledgement and willingness to participate in the tender to the undersigned, through fax or email.
7. Offers should be strictly in accordance with the Tender Specifications and General Instructions to Tenderer enclosed herewith.
8. "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all 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."

9. The contractor shall give his explicit confirmation without any deviations to the HSE (Health, Safety and Environment) requirements as per enclosed specification No. TBSM/HSE/NIT-01, Rev-00 Date 03.05.2019. Contractors are also required to furnish details as per Annexure (HSE) to NIT along with their offer. Offers received without compliance & data about HSE requirements are liable to be rejected.
10. All documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.
11. Clarifications, if any, can be obtained from the undersigned but such requests should be submitted well before the due date for submission of tenders. Due date for submission and opening of tenders will not be extended on such grounds.
12. Please note that wherever there is a contradiction between the 'Annexure to conditions of contract for erection works' and 'Conditions of contract for erection works', the 'Annexure to conditions of contract for erection works' clauses shall be governing and binding on the contractor.
13. **Drawings & FQP enclosed with the NIT (if provided) are for tender purpose only. Drawings & FQP may get change during execution stage and work to be carried as per latest RFC drawings & Field Quality Plan (FQP).**
14. **Construction/ RFC drawing/ Fronts shall be furnished progressively as per project requirement and no claim towards idling charges/ project overheads etc. borne by the contractor on account of non availability of drawings/ fronts shall be entertained.**
15. **Completion period of the work has been envisaged under best possible conditions. Any changes/ deviation during execution shall be dealt as per relevant clauses mentioned in general/ special conditions of contract for erection works.**
16. ***"In case this tender is awarded to first time contractor*, then the bidder shall be eligible to qualify for the next tender of similar work# of BHEL, TBG; only after successful executing of 50% (fifty percent) of this work prior to the date of next tender (in which bidder desires to quote) and on satisfactory performance feedback by BHEL site Incharge."***

**** First time contractor: The bidders who have not successfully executed more than 50% (fifty percent) of awarded similar work by BHEL (TBG/ ISG/Power Sector/Any BHEL Unit) in last 5 years from date of NIT.***

The bidders who have taken any order from BHEL under 1st time category, and desires to further participate in BHEL tenders, needs to submit a certificate/ undertaking mentioning the reason of not executing 50% of awarded work, hence the criteria under 1st time bidder shall not be applicable to them. The certificate/ undertaking shall be duly certified by Site In charge of BHEL

Similar work: Similar to nature of work of the tender under consideration.

17. The Bidders are advised to visit Site to have better understanding of job.
18. The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
- 1.0 Integrity commitment, performance of the contract and punitive action thereof:
 - 1.1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.
 - 1.2. Commitment by Bidder/ Supplier/ Contractor:
 - 1.2.1. The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
 - 1.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
 - 1.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www.bhel.com and/or under applicable legal provisions".
19. Also, offer of the bidders who are suspended (under hold/ delist) for business dealings by BHEL, TBG shall not be considered. Please note that lifting/ restoration of suspension (Ban/Hold/ De-list) of business dealing is not automatic after expiry of specified suspension period. Hence, vendor shall be considered as suspended for business till suspension is lifted by BHEL in writing on specific request of the vendor as per extant guidelines.
20. BHEL Fraud Prevention Policy, "The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice."
21. Offers will be scrutinized based on the qualifying requirements and only those who are technically and financially capable to execute the Job and who fulfil the Pre-Qualifying Requirements (PQR) are eligible to quote against the above NIT. However, final acceptance of the bidder/ offer shall be subject to acceptance of our customer.
22. The evaluation currency for this tender shall be INR.

23. 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 toss/ draw of 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.

24. **Integrity Pact (IP)**

- (a) IP is a tool to ensure that activities and transactions between the Company and Its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL

Sl no.	IEM	Phone & E- mail
1	Shri Arun Chandra Verma, (IPS (Retd.))	Acverma1@gmail.com
2	Shri Virendra Bahadur Singh. IPS (Retd.)	vbsinghips@gmail.com

(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (part-I in case of Two/ Three Part 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,

(c) Please refer Section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through e-mail only.

Note:-

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's officials whose contact details are provided below":

Details of contact person (s):-

1) Name:- Mukesh Paswan Department :- TBG, Subcontracting Address:- BHEL/ TBG, Noida Phone:- 01206748454 E mail:- paswan@bhel.in	2) Name:- Rajiv Ranjan Department :- TBG, Subcontracting Address:- BHEL/ TBG, Noida Phone:- 01206748575 E mail:- rajiv_ranjan@bhel.in
--	---

25. Technical Bid will be opened in the office of undersigned. If required, technical discussions will be held with only those bidders who have taken any deviations. Bidders representative may be present during technical bid opening for technical discussion, if required. The price bids will be opened subsequently, after Technical Bids of all the bidders have been evaluated and frozen. Bidders should quote their most competitive rates as there will not be any price negotiation. However if felt necessary by BHEL, price negotiation will be held with lowest bidder (L-1) only. **IT WOULD BE PREFERRED THAT YOUR OFFER IS WITHOUT ANY DEVIATION w.r.t. TENDER SPECIFICATIONS AND THE SAME MAY BE CLEARLY MENTIONED ON THE COVERING LETTER ACCOMPANYING THE TECHNICAL BID.** Offers with deviations are likely to be rejected. However if the bidder insists on any technical or commercial deviations, from the specification and/or tender conditions, the price implication if any, of withdrawing the deviations must be submitted along with the price bid in a separate sealed envelope superscribed "Price Implication for withdrawal of deviations".
26. In case any adverse information is received concerning performance, capability or conduct of the bidder after issue of tender enquiry, BHEL reserves the right to reject the offer at any stage as deemed fit.
27. Any materials (if required) for erection works have to be procured from Customer approved sources only. It will be the bidder's responsibility to get the approval of materials and vendors for materials.

28. The purchase preference for central P.S.Us shall be given as per the prevailing Government policy.
29. Work schedule and the deployment of manpower and T&P resources committed by the contractor in their offer, to match the scheduled completion, shall be submitted by contractor and mutually agreed with site In-charge immediately after the award of work. Further, the contractor shall mobilise at site within two weeks of award of work.
30. In case an offer is not being submitted by the prospective bidders against this tender, they may send their "regret" letter to this office, for information.
31. Details of qualifying work(s) executed by the bidder will be forwarded to the principal employer for verification of the work with respect to completion, commencement & completion date and value of the work executed. Performance feedback of the bidder will also be sought from the principal employer.
32. The bidder representative may be called for discussion with the committee. His originals may be verified by the committee. In addition to above their organisation chart and detail list of manpower, tools & plants and technically capability will be discussed and ascertained by the committee.

Thanking you,

Yours faithfully,
For and on behalf of BHEL,

(Mukesh Paswan)
AGM /TBSM

TO BE FILLED BY TENDERER OVER THEIR LETTERHEAD

REF.: TBSM/YADADRI/ETC/TENDER/21-22

DATE: 22.06.2021

SUB: TENDER FOR "RECEIPT OF EQUIPMENT/MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400 KV AIS SWITCHYARD AT 5 X 800 MW YADADRI THERMAL POWER STATION IN TELANGANAÖ.

It is certified that General Instructions and Information for tenderer have been read/ complied/ agreed to and each page of tender offer has been initialled and stamped.

Also It is being declares that we (.....Bidder Name) 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

(Signature of Tenderer)

Name and Designation of Authorised person (s)
Signing the tender on behalf of the tenderer

Authorization of representative who will participate in the on line Reverse Auction Process:

1	NAME & DESIGNATION OF OFFICIAL	
2	POSTAL ADDRESS (COMPLETE)	
3	TELEPHONE NOS. (LAND LINE & MOBILE BOTH)	
4	FAX NO.	
5	E-MAIL ADDRESS	
6	NAME OF PLACE / STATE / COUNTRY, WHEREFROM S/HE WILL PARTICIPATE IN THE REVERSE AUCTION	