



Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)
Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender Notice

NOTICE INVITING e-TENDER

Dear Sir/ Ma'am,

Ref: **Tender No. PPPU: WC: 22: 017 dt. 13.09.2022.**

Subject: Two-part **e-Tender** inviting techno-commercial and price bids for “**Modification and restoration of existing CCTV surveillance system at PPPU, Thirumayam**”

Kindly submit your competitive offer for the above subject work as per the tender terms and conditions given in the tender document through e-procurement portal <https://eprocurebhel.co.in/nicgep/app> only.

Scope of work	Modification and restoration of existing CCTV surveillance system at PPPU, Thirumayam (Scope of work and technical terms & conditions as per Techno- Commercial Part-I bid.)
Location of work	BHEL PPPU Thirumayam -622507 (Tamilnadu)
Duration of Contract	05 Months from the date of commencement of work as indicated in LOI.
Last date/ time for receipt of tender	10:00 Hrs on dt. 27.09.2022
Commencement of work	Within One Week from the Date of Issue of LOI
Date / Time & place for opening of Technical Bid	14:30 Hrs. on 27.09.2022 via On line through e-procurement by Contracts, PPPU, Thirumayam (In case of any change in opening date, if any, will be intimated later.)
Date/Time of Price Bid Opening	The date/ time of price bid opening will be intimated separately.

EMD AMOUNT: Rs. 15,800/- (Rupees Fifteen Thousand Eight Hundred Only)

No exemption is allowed for submission of EMD except for Joint Venture or subsidiary companies of BHEL, State or Central PSUs / Government departments / Autonomous / Educational / Research Institutes. EMD has to be paid through various mode such as SBI collect, DD, Banker's cheque etc. elaborated under cover title “EMD” in Page 5 of this document. Following link can be used for payment of EMD.

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

NOTE: - EMD waiver not applicable for MSE / NSIC / SSI vendors for this tender (Hence, vendors should furnish EMD of specified amount without which their bids will not be considered).



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Working Area Contact details	Dy Manager / Contracts & DTG Power Plant Piping Unit, BHEL -Thirumayam – 622507, Contact No. 9489202805 Email ID: dthomas@bhel.in <i>Vendors may visit the work area prior to submission of offer to understand the details of scope of work.</i>
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INSTRUCTIONS

This two- part e- tender consists of the following:

Part – I (A): Pre-qualification Bid

1. Earnest Money Deposit (EMD)

Part – I (B): Techno-Commercial Bid

2. PQC criteria for the contract
3. Scope of work and Work specific terms & conditions
4. General terms & conditions of the contract
5. All Annexures.

Part – II: Price Bid

Special Instructions to the bidders:

1. EMD should be submitted as per Part-I(A)/Prequalification Bid/EMD (including EMD waiver, if any). Techno-commercial bid will be considered only if the Part-I(A)/Prequalification Bid/EMD is valid. EMD in any other form and tender without EMD will be summarily rejected.
2. In case of offline payments, the hardcopies of Earnest Money Deposit (EMD) document/ DD submitted to BHEL PPPU Thirumayam and the soft-copies uploaded at the time of online bid submission should be the same, otherwise the tender will be summarily rejected.
3. Bidder should arrange for the EMD as specified in the tender. The original should be posted/couriered/given in person in a sealed cover super scribing 'Tender number/date/Part-I(A)/EMD' to the Tender Inviting Authority, within the bid submission date and time for the tender.
4. Any deviation to this tender terms & conditions, and schedules of this tender will lead to total rejection of the offer submitted.
5. Tenderer who have been suspended or black listed or issued with "Show Cause Notice" by BHEL, Tiruchirappalli -620014 or any other unit or GOI will not be allowed to participate in the tender, and bidder should declare the same in the tender. Even during the course of evaluation/ finalization of tender if it is found that some of the parties are black listed/ barred from business transaction/ under business hold, BHEL will not consider them for further participation in the tender. Bid of Tenderers who has been issued Contractual letter / Notice of termination / Termination letter by BHEL will not be considered for bid evaluation.
6. Should a tenderer find discrepancies or omissions in the tender documents, or should there be any doubt as to their meaning, he should at once address the authority inviting the tender, for clarification well before the due date, so as to submit his tender in time. No extension of time shall be given for submission of the tender on any account.
7. Rates should be quoted as per the Work / Rate schedule (Price bid/Part –II). Rates quoted in any other form will not be accepted, and will be rejected.
8. The tender documents must be signed physically / digitally by Director / Partner of the Firm or by the person holding the Power of Attorney on behalf of the Firm concerned. In the latter case, a copy of Power of Attorney, duly attested by a Notary Public must accompany the tender.
9. If a tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, the BHEL will reject such tender at any stage.
10. Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.



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11. Should a Tenderer's or a Contractor's or in the case of a firm or company of contractors/any of its shareholder's or shareholder's relative is employed in BHEL, the authority inviting the tenders shall be informed in writing of this fact at the time of submission of the tender, failing which the tender may be disqualified, or if such fact subsequently comes to light, the contract may be cancelled.
12. The tender schedule, and the tender shall be deemed to form an integral part of the contract to be entered into for this work.
13. Tender can be cancelled at any stage due to unavoidable circumstances.
14. Kindly ensure that the total size of the scanned documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
15. Bidder is advised not to wait till the last minutes or last few seconds w.r.t tender closing time to submit their offer to avoid complications related with internet connectivity / network problem/ power failure etc.
16. Bidder is advised take due care while quoting the technical and price bids forms in the e-procurement system. Bidder, who tampers with tendering procedure affecting ordering process or misusing the technical information of the tender document or withdrawing their offer after price bid opening, will be penalized as per BHEL guidelines on suspension of business dealings with suppliers/ contractors. Abridged version of the guideline is available in www.bhel.com.
17. It is advised that all the documents to be submitted are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.
18. The bidder has to upload the scanned copy of all the mentioned original documents (in colour) during online bid-submission.
19. In case you are not in a position to submit the offer, please send letter suitably specifying the reasons thereof.
20. The evaluation currency for this tender shall be INR.

Thanking you,
For **Bharat Heavy Electricals Limited**

Jayaram C B
Sr Manager (Contracts/ MS / DTG)
Power Plant Piping Unit
BHEL -Thirumayam – 622507
Contact No. 04333-279551, 9442230731
cbjayaram@bhel.in



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PART – I (A)

EMD

1 EARNEST MONEY DEPOSIT (EMD)

1.1 EMD AMOUNT: Refer page 1 of this tender document.

1.1.1 EMD shall not carry any interest.

1.1.2 EMD will be retained as part of Security Deposit.

1.2 EMD WAIVER CONDITION

Note: - EMD is waived off for Joint Venture companies of BHEL, State or Central PSUs / Government departments / Autonomous / Educational / Research Institutes.

1.3 MODES OF DEPOSIT OF EMD AMOUNT:

The EMD may be accepted only in the following forms:

1.3.1 Electronic Fund Transfer credited in BHEL account (before tender opening) - Online Payment procedure for EMD and SD amount attached (Annexure – I (page.no. 45) for vendors' reference.

1.3.2 Demand draft, in favour of **BHEL, Trichy-14** payable at **Trichy** (along with offer).

1.3.3 Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL, Trichy).

1.3.4 In addition to above, the EMD amount in excess of ₹2 lakhs (TWO LAKHS) will also be accepted in form of Bank Guarantee from scheduled bank, provided the Bank Guarantee is valid for at least six months from the due date of tender submission. For instance, if EMD amount is ₹2,50,000/- , BG can be submitted for ₹50,000/- and rest ₹2,00,000/- to be submitted through other modes mentioned above.

1.4 FORFEITURE OF EMD:

EMD by the tenderer will be forfeited as per tender documents if:

1.4.1 After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.

1.4.2 The Contractor fails to deposit the required Security deposit or commence the work within 15 days of LOI/ WO/ Contract.

1.4.3 EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines. Abridged version of the guideline is available in www.bhel.com.



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PART – I (B)

TECHNO-COMMERCIAL BID

PRE QUALIFICATION CRITERIA FOR THE CONTRACT

Sl. NO	CATEGORY	DETAILS
1.	STATUS OF THE COMPANY a. Proprietorship: PAN card on owner name b. For partnership firms: PAN card and PARTNERSHIP DEED c. For others: PAN card in the name of company / firm / business and CERTIFICATE OF INCORPORATION / MOA(Memorandum of Association and AOA (Articles of association).	Copy to be uploaded in EPS portal
2.	Goods & Service Tax (GST) registration / Application Reference Number. [(copy of registration details indicating GSTIN/ARN to be submitted along with offer. (If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer).]	Copy to be uploaded in EPS portal
3.	The bidder shall have successfully supplied and installed a CCTV surveillance system in minimum one organization/ institution/ industry in the past seven years from the date of tender opening. Proof of experience from any organization other than BHEL Trichy / Thirumayam to be supported by TDS (Tax Deducted at Source) certificate issued by the organizations OR Form 26 AS or bank statement for transaction of payment.	Proof to be uploaded in EPS
4.	The bidder must compulsorily make a site visit to assess the existing CCTV surveillance system set-up (camera and server locations, cable routing layout and other operational requirements) before submission of their bids.	Proof (MOM of Site Visit) to be uploaded in EPS
5.	Duly signed and filled copies of Annexures B and C shall be attached.	Duly signed and stamped to be uploaded in EPS portal
6.	Duly signed certificate of compliance in bidder's letter head shall be attached. (Annexure III)	Duly signed and stamped to be uploaded in EPS portal
7.	Duly signed Local content Declaration in bidder's letter head shall be attached (Annexure II)	Duly signed and stamped to be uploaded

Note:

- I. At any stage, BHEL may ask for original documents and contractor has to submit the same.
- II. All the documents should be valid & to be renewed and kept valid throughout the contract period, if contract is awarded.
- III. Apart from furnishing the above details, copies of relevant documents/ certificates must be uploaded with the Technical Bid.
- IV. If at any stage, the document(s) submitted by contractor is/are found incorrect/ false/ manipulated, the necessary action will be taken by BHEL against contractor as per the "Guidelines for suspension of Business dealings".



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Modification of existing CCTV system through repair/replacement of failed/non-functional components followed by installation of all the hardware & software, configuring, testing, commissioning and prove-out of the system.

I. SCOPE OF SUPPLY:

- I. Supply of Materials from SI No. 10 to 110 as per enclosed Technical Specification (Annexure-B). Bidder shall provide point to point confirmation against the material specifications mentioned in Annexure-B.

II. SCOPE OF WORK:

1. SPECIAL INSTRUCTIONS:

Modification and restoration of existing CCTV surveillance system at PPPU, Thirumayam as per the following scope of work:

Modification of existing CCTV system, by retaining the functional components wherever possible and replacement of failed/non-functional components with new materials followed by installation of all the hardware & software, configuring, testing, commissioning of the system as per specifications enclosed and prove-out of performance of the complete system.

The Scope of Work may be broadly defined as follows:

1. Complete Wired integration of cameras - Complete installation and commissioning of the networking components involved in the total system, bandwidth calculation, all statutory requirements for setting up the networking - to be carried out.
2. Integration of all the cameras with the Video management software and continuous transfer of the videos recorded, programming the software requirements and proving out the analytics and other features as per BHEL's requirements.
3. Integration of the cameras with the application server and the storage server and proving out the capacity of the storage server for 1-month continuous recording.
4. Proving out the total performance of the system from the cameras till the storage server.
5. The system should comply with ISMS (Information security management system) standard.

2. OTHER TERMS & CONDITIONS

i) Delivery Terms-FOR Destination

The Bidder shall be responsible for timely delivery, installation & commissioning of all the Hardware/ Software given in the scope of supply/work at the BHEL's premises. All the Hardware/ software shall be delivered within 4-6 weeks from the date of placement of order and successfully installed and commissioned within 12 weeks from the date of delivery of all hardware/ software.

ii) Equipment shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. "Newness" certificate from OEM shall be furnished for all items.

iii) All Equipment / Services including Personnel for carrying out the installation and commissioning of the Equipment shall be arranged by the bidder. If any service is availed from BHEL, it is only on chargeable basis unless otherwise specified.

iv) The Bidder shall arrange for boarding, accommodation and logistics of personnel deployed for installation and commissioning.

v) The Bidder may visit the area of work for assessing the actual site conditions, before submission of the bid.



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vi) After Award of Work, the successful bidder shall visit the site and determine, jointly with BHEL personnel, the actual quantities of materials required for successful modification of the existing CCTV system.

3. WARRANTY

Vendor shall provide replacement warranty for trouble-free operation of the entire CCTV system (including hardware and software) for a minimum period of 12 months from the date of successful commissioning of the system. Vendor to specify the offered warranty period in months.

Technical support shall be ensured for smooth functioning of the CCTV system on On-Call basis throughout the entire warranty period.

4. BHEL SCOPE

- i) All excavation works, wherever required, for cable laying shall be under the scope of BHEL.
- ii) Power supply points shall be provided near the locations of installation of cameras, wherever required.
- iii) Erection of GI poles, fabrication and fixing of mounting structures for the cameras (like angles, channels, stiffener plates etc) shall be carried out as per site requirement.
- iv) BHEL shall provide ladder through Fire Vehicle/Other Means for installation of cameras at height.

5. CONTRACTOR SCOPE

- i) The contractor shall either - Use the existing cables that were laid initially for installation of the existing CCTV system by repair/rectification of damaged cables (OR) Lay new Optical fiber/UTP cables upto the cameras and integrate all camera outputs in the NVR.
- ii) Optical fiber/UTP cables shall be laid throughout the campus (inside the factory and outer areas) for integration of all the camera outputs. These cables shall be laid inside conduits like PVC/ for protection of cables from rodent bites and harsh climatic conditions. All accessories for cable laying such as PVC pipes, elbows, joints, cable end connectors, other fasteners such as lugs, glands etc shall be under the scope of contractor.
- iii) Cable jointing is to be done wherever length of cable is not sufficient. Cable jointing kit shall be brought by the contractor.
- iv) The contractor shall lay requisite cables from nearby power supply point up to the cameras and mount the cameras (along with necessary mounting plates/adapters) in the designated locations.
- v) Installation of all POE switches, Network rack and Media Converters, wherever necessary, including wiring of these components for interfacing with the application software shall be under contractor's scope.
- vi) All the active components including the cameras and NVR shall be provided with back-up supply by installing UPSes of sufficient capacity. Wiring of UPS in the designated locations shall be under vendor's scope.
- vii) The movement of cameras, related accessories or any other material related to CCTV system from one location to another is under the scope of the vendor.
- viii) Necessary PPEs, as applicable, for carrying out the works such as Safety Gloves, Safety Helmets etc shall be provided to workmen by the vendor.

6. Specifications and General Features of CCTV Application Software as per enclosed Annexure-C.

Bidder shall provide point to point confirmation against the specifications and general features mentioned in Annexure-C.



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7. ACCEPTANCE TEST AND BACKUP PROCEDURES

After the installation and commissioning of the system as per the technical specification, following are to be done for prove-out:

1. Demonstration of all installed cameras in on line mode to prove the camera's performance during day and night. Demonstration of cameras working on battery in case of power failure. Demonstration of the cameras in case of network failure.
2. Online report for all the above movements.
3. Demonstration of smooth working of all software modules.
4. Demonstration of all the analytics and other features controlled in each camera is to be proved through the video management and recording software.
5. Storage capacity of the hard disk for a period of minimum 15 days for continuous recording of all the cameras should be proved.
6. Storage capacity of the cameras for 72Hrs continuous recording should be proved.
7. Demonstration of the total system in online mode for 1 day continuously to prove the maximum transmission and reception data rate.
8. Ensuring the network healthiness in all the cameras 24 x 7 and during the online mode, continuous video data transmission from all the cameras without any delay in the screen to be monitored for a day.
9. Vendor shall ensure back up support with Original Equipment Manufacturer (OEM) during contract period for wired, wireless network components, CCTV cameras and related hardware, software of the entire system to ensure availability of spares and services.
10. Vendor to ensure required back-up of useful data and handing over of the media to security department.
11. Vendor to ensure smooth recovery and business continuity, on On-Call basis, in case of CCTV system failure subsequent to commissioning of the system.

8. DOCUMENTATION

The following documents in English language should be supplied along with the CCTV system:

Hard Copies - 2 Sets and Soft copy - 1 set

1. Catalogs/Datasheets of all Cameras, NVR, Media Converter, POE switches, Network Racks, UPS, Hard Disk and any other active/passive components in the system.
2. Complete Electrical Circuit Drawings/Schematics for the CCTV system.
3. Operation & Maintenance Manual for the CCTV system.
4. Complete Layout Drawing indicating the locations of the Cameras and other active components and Detailed Cable Routing plan.
5. Detailed Bill of Materials of all components of CCTV system including complete technical specification and the supplier addresses for all the bought-out items.
6. Newness certificate of all active components in the CCTV system.

9. TRAINING

Vendor shall provide training to BHEL's Staff on Operation and Maintenance of the newly commissioned CCTV Surveillance System at BHEL Thirumayam.



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***BILL OF QUANTITY**

SL NO	DESCRIPTION OF WORK	UOM	QUANTITY
1.	Supply of PTZ 2MP IR Network cameras	Number	12
2.	Supply of 4MP IR Bullet Network cameras	Number	14
3.	Supply of 16 Channel NVR	Number	2
4.	Supply of CAT 6 UTP Cable (1Box=305Mtr)	BX	1
5.	Supply of 6 CORE FIBER CABLE	Metre	250
6.	Supply of MEDIA CONVERTER	Number	16
7.	Supply of 4/5 PORT POE SWITCH	Number	4
8.	Supply of 8 PORT POE SWITCH	Number	1
9.	Supply of 2TB HARDDISK	Number	2
10.	Supply of Network Rack 4U	Number	2
11.	Supply of 1 kVA UPS (with Battery)	Number	12
12.	Labour charges for restoration of system	Lumpsum	1

** Bills will be raised only for the actual quantities consumed in the above Bill of Quantities.*



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III. COMMERCIAL TERMS & CONDITIONS:

01. TERMS FOR PRICE BID & RATE BASIS

- a. Price bid is to be submitted in a separate price bid form provided in the portal.
- b. The rates quoted should be **Exclusive of GST (but inclusive of any other taxes & duties)** levied or to be levied both by Central and State Government Authorities. Such levies, if any, should be borne only by the Contractor.)
- c. The applicable rate of GST in % should be mentioned in the Technical bid forms in EPS.
- d. GST Payment will be reimbursed as per statutory provisions, subject to production of proof of payment / remittances only.
- e. The rates quoted in the tender shall remain **valid** initially for a period of at least **120 days** from the date of opening of Tender. After successful award of contract, the rates shall be firm throughout the contract period.
- f. ***Contractor has to ensure that all statutory payment as per Minimum wages act, 1948/ Payment of Wages act etc. is taken care of while quoting. No claim in respect to payment to workman will be entertained at a later stage. It will be responsibility of contractor to comply with statutory payments to workmen in this regard.***
- g. ***Before tendering, the tenderers are strongly advised to inspect the site of work and its environments and be well acquainted with the actual working and other relevant conditions, position of materials and labour under scope of work covered.***
- h. BHEL reserves the right to
 - i. Cancel the tender at any stage.
 - ii. Negotiate or re-float the tender opened if L1 price is not the lowest acceptable price to BHEL interalia other reasons.
- i. All payments from BHEL in view of the execution of the contract are liable for IT (TDS), GST (TDS), PF & Group Insurance and all other statutory provisions as applicable. Hence, bidders shall confirm that they have suitable mechanism for effective compliance to the same.

02. TAXES AND DUTIES:

1. GST portion of invoice will be released only upon:
 - 1.1 Vendor declaring such invoice in his GSTR-1 and
 - 1.2 Receipt of goods and tax invoice by BHEL and
 - 1.3 Confirmation of payment of GST thereon by vendor on GSTN portal
2. In case GST credit is delayed or denied to BHEL due to non /delayed receipt of goods/services and /or tax invoice or expiry of timeline prescribed in GST law for availing such ITC or any other reasons not attributable to BHEL, GST amount will be recovered from vendor along with interest levied or leviable on BHEL from payment due to vendors (bills, SD etc.) from BHEL.
3. In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recovered from vendor /contractor along with interest levied/leviable on BHEL from payment due to vendors such as running bills or Security deposit etc. from BHEL.

Note:



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1) Three copies of GST rule compliant tax INVOICE with original signature to be submitted every month on completion of work.

*2) GST will be charged on the EMD/SD amount forfeited (**in-case**) from the bidder at the applicable rates. GST tax Invoice will be issued to the vendor on receipt/recovery of GST amount from the vendor.*

03. CONTRACT PERIOD: -

1. The period of contract shall be **05 Months** from commencement of work as indicated in LOI.
2. If required, BHEL reserves the right to extend this subject contract for a further period under same terms and conditions subject to mutual acceptance of both parties.
3. The contract may be terminated by BHEL due to violations or non-performance of the Contract conditions by giving fifteen days' notice.

04. PAYMENT TERMS:

- a. Bills shall be raised by the vendor only after successful prove-out and commissioning of the system.
- b. Bill will be processed immediately on submission of error free GST rule compliant tax invoices and necessary welfare clearance if any. Invoice shall indicate W.O and W.O SI. No in all invoices for processing payment.
- c. 100% Payment will be released through RTGS/NEFT to the contractor after 45 Days from the date of commissioning of the CCTV system against submission of 10% PBG for a Warrantee period of 12 months.
- d. After completion of the work, the contractor has to submit the original bills in triplicate.
- e. The payments will be released by BHEL on submission of error-free bill by the contractor and certification by BHEL in-charge (DTG/PPPU).

Note: Three copies of GST rule compliant tax INVOICE with original signature to be submitted on completion of work.

05. PENALTY CLAUSE:

The successful bidder shall complete the prove-out and commissioning of the system within the PO delivery date. Penalty will be levied in case of delays @0.5% per week of delay, of the total PO value, subject to a maximum of 15%.

06. RISK PURCHASE:

- a) In the event of any successful Tenderer's failure to fulfil any of the Tender / Contract Terms & Conditions / Obligations, explicitly expressed or implied, as per Tender / Contract, BHEL may entrust the job to alternate vendor and get it completed to meet the BHEL service requirements and additional expenditure if any including consequential cost shall be totally recovered from the contractor who failed to complete the job in line with the BHEL tender / contract.
- b) The decision of BHEL with regard to the actual losses / consequential expenditure incurred by BHEL shall be final and binding on the contractor *and also 5% overhead charges to be added in addition to extra expenditure to BHEL.*



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07. PERFORMANCE BANK GUARANTEE (PBG):

The bidder in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL at no extra cost in a format prescribed by BHEL (Annexure Z), along with the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for a period of 12 months from the date of commissioning of equipment at BHEL, Thirumayam, with a claim period of two months.

The Performance Bank Guarantee shall be obtained from any one of the Banks given in the List of Consortium Banks. If PBG is issued by foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG.



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IV. GENERAL:

1. The contractor agrees to indemnify BHEL against all claims and losses arising as a liability under the Payment of Wages Act, Employees Provident Fund & Miscellaneous Provisions Act, Industrial Disputes Act, Employees State Insurance Act, Contract Labour (Regulation & Abolition) Act, Workmen's Compensation Act, Arbitration Act, Minimum Wages Act, Inter State Migration Act etc. or any civil or criminal law in force so far as they relate to security personnel employed by the contractor for the company.
2. The liability of any compensation for injury to their staff or others arising as a result of duties by the staff shall be that of the contractor.
3. Income Tax, GST TDS or any other statutory dues liable to be paid by the contractor shall be recovered from the bills of the contractor for which TDS certificate will be issued by BHEL.
4. With regard to the interpretation of the terms and conditions of this contract, the decision of the Head of the Unit / BHEL – PPPU Thirumayam shall be final.
5. Disputes or differences arising from this tender or in any manner connected therewith shall be subjected to the following disputes resolution mechanism:
 - i. Any dispute shall initially be referred to the designated Senior Management of the parties for amicable settlement. Parties shall nominate two persons each from their senior management within 10 days of a dispute arising.
 - ii. If no amicable settlement is arrived at within 30 days, then any party may refer the dispute to sole arbitrator to be nominated by Head of the BHEL Unit/Region/Division issuing the Contract. The place of arbitration shall be at Thirumayam. All arbitration proceedings shall be conducted in English in accordance with the provisions of the Arbitration and Conciliation Act, 1996.
 - iii. All disputes shall be subject to the exclusive jurisdiction of the Courts at Pudukkottai.



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Checklist for Documents to be submitted to HR/Welfare Section*				
S.No	Document type	Scheduled Date	Periodicity	Remarks
1	PF Registration code	On Award of contract/ on production of First bill	One time/as and when required by BHEL	
2	ESI/Group Insurance Code	On award of Contract	One time/as and when required by BHEL	
3	Form VI-A & VI-B under Contract labour (R&A) Act	On commencement and Completion of the Contract	Twice (Once on commencement and once on completion of contract)	Form VI-A to be submitted to Labour authorities and a copy to submitted to Welfare section. Form VI-B (to be prepared and endorsed by User/executing Department) to be submitted to Welfare Section
4	Labour License	To be obtained immediately from Labour authorities in case of engagement of 20 or more contract workers	One time/ on renewal of License / as and when required by BHEL	
5	Bio Data form with proper ID proof	To be submitted for all employees immediately on award of contract and as and when new employees are engaged	One time / as and when required by BHEL	Required for providing ID cards to enable entry into Factory premises and for record purpose
6	Attendance Register	To be submitted on or before 5th of every month	Monthly	To be endorsed by the contractor and BHEL authorised executive/Line Executive
7	Wage Register	To be submitted on or before 10th of every month	Monthly	To be endorsed by the contractor and BHEL authorised executive/Line Executive
8	PF remittance challan & PF - ECR	To be submitted on or before 10th of every month	Monthly	To be checked and cleared by HR Dept

***The checklist is indicative, the contractor is obliged to produce any other document required, in compliance with extant statutes and BHEL practice, as and when required.**



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V. CONDITIONS RELATED TO THE WELFARE OF LABOURS:

- 1) The successful contractor has to have his own PF, ESI / Group Insurance registration and comply with the relevant Acts. If not available immediately / already applied / pending with PF authorities, then an undertaking to comply shall be submitted on award of contract.
- 2) The Contractor has to remit PF for his workers for the same amount which he paid as total wages to the employees on monthly basis. He has to remit 13% from his side and deduct 12% of Wages from the monthly wages of the employees and a total of 25% of monthly wages should be remitted as PF i.e. each employee. The percentages mentioned are indicative in nature. The PF shall be remitted as per the existing Government guidelines.
- 3) The Contractor has to produce the PF Registration Code for his workers as per the Government rules while submitting the first bill. The first bill will be processed only on production of the above code. For subsequent bills, the PF remittance challan (for the billing period) for the engaged labor has to be submitted for bill processing.
- 4) BHEL will not be liable for any medical attention, injury / loss of life of the persons engaged by the contractor during the work inside the factory premises as per the contract. A suitable insurance coverage (ESI / Group Insurance) for the employees shall be arranged by the Contractor at his cost from the first day of operation, towards medical treatment and compensation of any loss as per legal provisions.
- 5) The contractor shall have full control over his employees including the right to appoint, determine service conditions, discharge, dismiss, or otherwise terminate their services at any time. The contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments.
- 6) In case, during the contract period if ESI scheme comes into effect, the contractor shall conform to the statutory requirements and any additional cost involved shall be borne by the contractor only.
- 7) The contractor shall employ such personnel who are medically fit and above the age of 18 only. The company has the right to direct the contractor to remove from the premises such of his personnel who may be physically, hygienically, clinically or medically found to be unfit.
- 8) The upper age limit for the contract employees deployed by the contractors is restricted to sixty.
- 9) The Minimum Wages as prescribed by the State Government from time to time should be paid to the contract Workers and the Wage and Attendance Registers should be produced to HR department every month.

The minimum wages are given below for reference: (w.e.f 01/04/2022)

Sl. No.	Category	Minimum Wages per day (Rs.)		
		Basic	DA	Total
1	Unskilled Worker	258.50	236.19	494.69
2	Semi-Skilled Worker	271.00	236.19	507.19
3	Skilled Worker	278.50	236.19	514.69
4	Supervisor	295.00	236.19	531.19

(The above table is for illustrative purpose only. Latest Govt circular shall be followed.)

- 10) If the contractor employs more than twenty employees, he has to obtain license to this effect from the Factory Inspectorate and renew the same periodically.
- 11) The Contract workers should be fully aware of safety measures and observe all safety precautions during work. The contractor should also make his own arrangements to provide requisite safety devices to the



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workers, based on the nature of work. Any accident/incident occurring to his workers in Company's premises should be reported in writing by the Contractor to Safety, Welfare and Line Executive concerned.

- 12) A list containing the name of working persons' photo, address, age, designation, nature of work is to be furnished immediately on receipt of the contract/work order. This is required for our records and issuance of Identity Card for Gate entry.
- 13) The canteen charges (cost of the food items and beverages) for contract workmen will be charged if availed, at the rate fixed by BHEL from time to time BHEL's Policy.
- 14) **The contractor has to disburse the salary/wages for their workmen only through Bank Account. The relevant Bank statement/proof for Bank payment should be produced along with PF and ESI and challans to Welfare Section every month.**
- 15) Minimum Bonus of 8.33% as applicable shall be paid to the contract employees as per the Payment of Bonus Act 1965.
- 16) The Contractor shall in respect of labour employed by him, comply with the following statutory provisions, rules & in regard to all matters provided therein.
 - a) The Workmen Compensation Act 1923,
 - b) The Payment of Wages Act 1936 and the related Tamil Nadu Rules,
 - c) The Industrial Disputes Act 1947,
 - d) The Factories Act 1948 and the related Tamil Nadu Rules,
 - e) The Minimum Wages Act 1948 and the related Tamil Nadu Rules,
 - f) Employee's Provident Funds & Miscellaneous Provisions Act 1952,
 - g) The Payment of Bonus Act 1965.
 - h) The Contract labour (Regulation & Abolition) Act 1970 and the related Tamil Nadu Rules.
 - i) The Building and Other Construction Works (RE & CE) Act, 1996 and the related Tamil Nadu Rules.



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VI. GENERAL TERMS & CONDITIONS

1. **DEFINITION:** In these General Conditions of Contract, the following terms shall have the meaning hereby assigned to them, except where the context otherwise requires:
 - a) The "**Contract**" means, the documents forming the tender and acceptance thereof, together with all the documents referred to therein including general and special conditions to contract. All these documents as applicable taken together shall be deemed to form one contract and shall be complementary to one another.
 - b) The "**work**" means, the work described in the tender documents in individual work-orders as may be issued from time to time to the contractor by the Officer In-charge within the power conferred upon him including all notified or additional items of works and obligations to be carried out as required for the performance of contract.
 - c) The "**contractor**" means, the individual Firm or Company whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company or the successors of the firm or company and the permitted assigns of such individual or firm or Company.
 - d) "The **Officer-In charge**" means, the Officer deputed by the Head of Dept. /Executing Dept., to supervise the work or part of the work.
 - e) "**Approved**" and "**Directed**" means, the approval or direction of Head of Unit/PPPU-THIRUMAYAM, or person deputed by him for the particular purposes.
 - f) "BHARAT HEAVY ELECTRICALS LIMITED" (herein after referred to as BHEL) shall mean the Board of Directors, Chairman, Executive Director, General Manager or other Administrative Officer of the said Company including Executive/CONTRACTS/PPPU authorized to invite tenders and enter into contract for works on behalf of the Company.
 - g) The "**Contract sum**" means, the sum accepted or the sum calculated in accordance with the prices accepted in tender and / or the contract rates as payable to the contractor for the execution of the work during the currency of the contract.
 - h) A "**week**" means, Seven Days, without regard to the number of hours worked or not worked in any day in that week.
 - i) A "**day**" means, the day of 24 hours (TWENTY-FOUR) irrespective of the number of hours worked or not worked in that day.
 - j) A "**working day**" means, any day other than that prescribed by the NEGOTIABLE INSTRUMENTS ACT as being a Holiday, and consists of the number of hours of labour as commonly recognized by good employers in the trade in the district where the work is carried out or as laid down in the BHEL regulations.
2. **HEADING TO THE CONTRACT CONDITIONS:** The heading to these conditions shall not affect the interpretations thereof.
3. **WORK TO BE CARRIED OUT:** The Contract shall, include all labour, materials, tools, plant, equipment and transport which may be required for the execution of the work. The Contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution of the work. No extra charges consequent on any misunderstanding in these respects or otherwise will be allowed.
4. **ORDERS UNDER THE CONTRACT:** All orders, notices etc. to be given under the contract shall be in e-mail, writing, type-script or printed and if sent by registered post to the address given in the tender of the Contract, shall be deemed to have been served on the date, when in the ordinary course they would have been delivered to him. The Contractor shall carry out without delay all orders given to him.



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5. **DEVIATIONS:** The contractor shall not carry out any work not covered by schedule except in pursuance of the written instructions of HOD/Contracts Dept. No such work shall be valid unless the same has been specifically confirmed and accepted by BHEL in writing and incorporated in the Contract.
6. **ASSIGNMENT OF TRANSFER OF CONTRACT:** The Contractor shall not without the prior written approval of the BHEL, assign or transfer the contract or any part thereof, or any share, or interest thereon to any other persons. No sum of money which may become payable under the contract shall be payable to any person, other than the contractor unless the prior written approval of the BHEL to the assignment or transfer of such money is given.
7. **COMPLIANCE TO REGULATIONS AND BY-LAWS:** The Contractor shall confirm to the provisions of any statute relating to the work and regulations and Bye-Laws of any local authority. The Contractor shall be bound to give all notices required by statute regulations or By-Laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.
8. **GOODS & SERVICE TAX (GST) REGISTRATION & COMPLIANCE**
 1. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.
 2. Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc.
 3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
 4. Invoices will be processed only upon completion of statutory requirement and further subject to following:
 - a. Vendor declaring such invoice in Form GST ANX-1
 - b. Receipt of Goods or Services and Tax invoice by BHEL
 5. As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on dispatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).
 6. In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.
 7. In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor



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8. In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.
9. Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.
10. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.

GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.

9. SECURITY DEPOSIT

Amount of 5% of the contract value (Excluding GST) shall be deposited before start of the Work as Security Deposit. Failure to remit the Security Deposit shall be treated as failure to discharge the duties under the contract and shall result in cancellation of the contract and the bidder shall be liable to compensate BHEL for any loss. EMD in such cases shall be forfeited.

The Security Deposit may be furnished in any one of the following forms:

1. Remittance through online SBI-State Bank Collect.
2. Pay Order, Demand Draft in favour of **BHEL Trichy**.
3. Local cheques of scheduled banks, subject to realization.
4. Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
5. Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL and **with minimum validity covering the contract period + 6 months & maintenance period if any**.
6. In order to ensure the genuineness of BG's, the BG's are to be sent directly by the concerned bank through registered post to CONTRACTS DEPT/PPPU, BHEL Thirumayam.
7. Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C BHEL, Trichy duly discharged on the back and with minimum validity covering the contract period + **6 months** & maintenance period if any.
8. Security deposit can also be recovered at the rate of 10% from the running bills. However, in such cases at least 50% of the Security Deposit should be paid before commencement of work (any of the above form) and the balance 50% may be recovered from the running bills.
9. For contract value less than Rs 20 lakh, work may be started after issue of LOI without remittance of SD. From the first bill, 50% of SD will be collected, and the balance will be recovered from the running bills at the minimum rate of 10% of gross SD.

The security deposit shall not carry any interest.

The Earnest Money paid at the time of tender will be adjusted as part of the Security Deposit and the balance amount will be collected from the contractor as mentioned above.

Security Deposit shall not be refunded except in accordance with the terms of the Contract or Agreement. No interest shall be allowed on Security Deposits. BHEL shall not be responsible for any loss of securities, due to



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liquidation for any other reasons, what-so-ever or any depreciation in the value of the securities while in their charge or for any loss of interest there on.

All compensation or other sums of money payable by the Contractor to BHEL under the terms of this contract or under any other contract with BHEL may be deducted from the Security Deposit or realised by the sale of the securities or from the interest arising there from or from any sums which may be due or may become due to the contractor by BHEL and in the event of this Security Deposit being deducted by reason of such deductions or sale, as aforesaid, the Contractor shall within 7 days thereafter, make good in cash or in securities endorsed as aforesaid, any sum by which the Security Deposit has been reduced.

10. Set off Clauses

Payment of bills, payment of any amounts due, release of Security Deposit or return of Bank Guarantees furnished under this tender/contract, shall be subject to the deduction of any amount for which the Bidder is liable under this contract, or any contract placed on the contractor by BHEL, Piping Centre, Chennai or any/all other Unit/s of BHEL.

11. REFUND OF SECURITY DEPOSIT:

Security Deposit will be refunded on completion of the work and after the expiry of the maintenance period, if any, provided always that the Contractor shall first have been paid the last and final bill and have rendered a "NO DEMAND CERTIFICATE". In case no maintenance period is applicable, then 100% of security Deposit will be refunded after providing "No Demand" certificate by the contractor as per the "Refund of Security Deposit" format.

12. CONTRACTOR'S SUPERVISION:

- The Contractor or his accredited agent shall attend when required without making any claim for doing so, either the office of the Executive/CONTRACTS or the OFFICER-INCHARGE, to receive instructions.
- Orders given to the Contractor's agent shall be considered to have the same force as if they have been given to the Contractor himself.
- BHEL-PPPU, THIRUMAYAM shall have full powers and without assigning any reason, require the Contractor to immediately cease to employ in connection with this contract, any agent, servant or employee where continued employment is, in his opinion undesirable. The Contractor shall not be allowed any compensation on this account.

13. LABOUR:

The Contractor shall remain liable for the payment of all wages or other moneys to his work-people or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, there under from time to time.

14. PRECAUTIONS AGAINST RISK: The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

15. DAMAGE & LOSS TO PRIVATE PROPERTY & INJURY TO WORKMEN : The Contractor shall at his own expense reinstate and make good to the satisfaction of the HOD/Executing Dept., and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify, the BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL where BHEL is a private person, in respect of any such injury (including injury resulting



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in death) loss or damage to any person whomsoever or property including all claims which may arise under the Workmen's Compensation Act or otherwise.

16. LAWS GOVERNING THE CONTRACT:

The contract shall be governed by the Indian Laws for time being in force.

- (i) Should a tenderer or a contractor has a dependent/relative or in the case of a partnership firm, any of its partners or dependents of partners employed in BHEL, the authority inviting tenders should be informed of this fact at the time of submission of the tender failing which tender may be disqualified or if such fact subsequently come to light, the contract may be cancelled.
- (ii) No BHEL employee and their dependents are eligible to submit their offer against this tender.

17. CANCELLATION OF CONTRACT FOR CORRUPT ACTS:

BHEL, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued shall accrue thereafter to BHEL cancel the contract in any of the following cases and the Contractor shall be liable to make payment to BHEL for any loss or damage resulting from any such cancellation to the same extend as provided in the case of cancellation for default.

If the Contractor shall: -

- 1. Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act, in relation to the obtaining or execution of this or any other contract for BHEL service,
OR
- 2. Enter in to a contract with BHEL in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to BHEL.
OR
- 3. Obtain a contract with BHEL as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to BHEL.

18. CANCELLATION OF CONTRACT IN PART OR FULL FOR CONTRACTOR'S DEFAULT:

If the Contractor:

- a) makes default in carrying out the work as directed and continues in that state after a reasonable notice from HOD/Executing Dept., or his authorised representative;
- b) fails to comply with any of the Terms and Conditions of the contract or after reasonable notice in writing with orders properly issued there under;
- c) BHEL, may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to BHEL CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever BHEL exercise the authority to cancel the contract as whole or part under this condition BHEL may complete the work at the contractor's risk and cost (as certified by HOD/Executing Dept., which is final and conclusive) being less than the contract cost, the advantage shall accrue to the BHEL. If the cost exceeds the moneys due to the Contractor under this contract the Contractor shall either pay the excess amount ordered by HOD/Contracts Dept. or his authorized representative or the same shall be recovered from the Contractor by other means. In case the BHEL carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by the BHEL with an addition of such percentage to cover the superintendence and



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establishment charges as may be decided by the HOD/Executing Dept. & Contracts Dept., whose decision shall be final and conclusive.

19. CANCELLATION OF CONTRACT FOR INSOLVENCY, ASSIGNMENT OF TRANSFER OR SUB-LETTING OF CONTRACT:

BHEL, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to BHEL shall cancel the contract in any of the following cases:

If the Contractor,

- 1) being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors
OR
- 2) being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a receiver or Manager on-behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager,
OR
- 3) Assigns, Transfers, attempts to assign, transfer any portion of the work without the prior written approval of the BHEL.
OR
- 4) Sub-lets or attempt to sub-let any portion of the work.
OR
- 5) Fails to carry out the work and unauthorized absence for more than 3 days.
OR
- 6) Whenever BHEL exercise the authority to cancel the contract under these conditions, BHEL may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by EXECUTIVE/CONTRACTS/PPPU which is final and conclusive) being less than the contract cost, the advantage shall accrue to the BHEL and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by HOD/Contracts Dept. or his authorized representative, or the same shall be recovered from the Contractor by other means.
OR
- 7) In case the BHEL carries-out the work under the provisions of this condition the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and/or labour provided by the BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the HOD/Executing Dept. & Contracts Dept., whose decision shall be final and conclusive.

20. TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR:

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, BHEL shall have the option of terminating the contract without compensation to the Contractor.

21. **SPECIAL POWER TO TERMINATION:** If at any time after the award of contract, BHEL shall for any reason whatsoever not require whole or any part of the work to be carried out, the HOD/Contracts Dept. or his authorized representative, shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might



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have derived from the execution of the work in full but which he did not derive in consequence of the fore-closing of the work.

22. RECOVERY FROM CONTRACTOR:

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with BHEL or he shall pay the claim on demand.

23. POST TECHNICAL AUDIT OF WORK AND BILLS: -

BHEL reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof. However, no such recovery shall be enforced after three years of passing the final bill.

24. PREFERENCE TO MAKE IN INDIA: For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non Local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the 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.

25. FORCE MAJEURE CLAUSE: If, at any time during the continuance of this Contract the performance in whole or in part by either party of any obligations under this Contract shall be prevented or delayed by reason of any War, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earth Quake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence therefore neither party shall by reason of such event be entitled to terminate this Contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under this Contract is prevented or delayed by reason of any such event, claims for extension of time shall be granted for periods considered reasonable by the Executive/Contracts/PPPU subject to prompt notification by the contractor.

26. ARBITRATION & CONCILIATION:

Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the Parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL Unit/Region/Division issuing the Contract.

1. The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the Parties.
2. Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Pudukkottai.
3. The cost of arbitration shall be borne as per the award of the Arbitrator.



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4. Subject to the arbitration in terms of Clause above, the Courts at Pudukkottai shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.
5. Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable: In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either Party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the Parties to the dispute, provided, however, any Party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the Parties hereto finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

27. JURISDICTION:

In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Pudukkottai, Tamil Nadu only shall have the Jurisdiction and is only after exhausting the, Arbitration, Clause 25.

- 28. SIGNING OF CONTRACT:** Each contract document shall be signed by the Contractor with his usual signature. Contract by partnership of Hindu Joint Family firm, may be signed in the FIRM'S name by one of the Partners or the Karta or Manager as the case may be or by any other duly authorised representative followed by the name and designation of the persons so signing. Contracts by a Company shall be signed with the name of the Company by a person authorised in this behalf and a power of attorney or other satisfactory proof showing that the persons signing the Contract documents on behalf of the Company is duly authorised to do so, shall accompany the contract.

29. SECRECY OF CONFIDENTIAL INFORMATION:

The Contractor undertakes and agrees that he/it will not disclose or reveal in part or full the proprietary/confidential information, which terms shall mean and include patents, trademarks, service marks, registered designs, copyright, design rights, know-how, confidential information, trade and business names and any other similar protected information of BHEL received during negotiation or currency of the contract to any third party or governmental authorities without written permission from BHEL. In the event of termination or expiry of the contract, the contractor shall return all proprietary/confidential information to BHEL. This clause shall survive termination or expiry of the contract. BHEL reserves the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc., if the contractor is found guilty / wrong usage of the documents given by BHEL for any unauthorized activity.

30. STATUTORY REQUIREMENTS:

- a) All statutory requirements under Minimum Wages Act, 1948, Factories Act 1948, Workmen Compensation Act 1923, Employees Provident Fund and Miscellaneous Provisions Act, 1952, Payment of Gratuity Act 1972, Employee State Insurance Act 1948, Contract Labour (Regulation and Abolition) Act 1970, Payment of Bonus



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Act 1965, Income Tax Act, GST / SGST / IGST / UTGST Act and all other applicable Acts shall be complied with by the Contractor.

- b) Contractor shall comply with all statutory requirements, rules, regulations, notifications in relation to employment of his employees issued from time to time by the concerned authorities.
- c) Contractor shall indemnify BHEL against all claims and losses under various Labour Laws, statutes or any civil or criminal law in connection with employees deployed by him.
- d) Contractor wherever applicable shall maintain proper records prescribed by the concerned statutory authorities and provide a copy of the same to BHEL.
- e) Contractor shall furnish proper returns to the concerned statutory authorities and provide a copy of the same to BHEL.

31. REGISTERS & RECORDS:

The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.

32. REMOTE TRANSACTIONS:

The Contractor shall agree to and comply with all such terms and conditions as BHEL may prescribe from time to time and shall confirm that all transactions effected by or through facilities for conducting remote transactions including the Internet, World Wide Web, electronic data interchange, call centers, teleservice operations (whether voice, video, data or combination thereof) or by means of electronic, computer, automated machines network or through other means of telecommunication established by BHEL shall constitute legally binding and valid transactions when done.

33. CHANGE IN CONSTITUTION OF FIRM:

Changes in constitution of firm whenever it is made after submission of application or during currency of the contract, the existing firm has to duly inform the proposed changes to contracting department of BHEL at the appropriate time before the changes in the constitution are made. In case the absence of any such information BHEL is not responsible for the consequences arising out of the absence or suppression of information and the issue / dispute arising out of these changes and the firm is responsible for settling the issue or dispute among themselves (Partners etc.) or with the bankers or with any third party. Under the above circumstances when dispute arises and the firm does not inform the change in the constitution of the firm BHEL may reserve its rights for suspending or terminating the contract.

34. 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.

35. COMMON TERMS AND CONDITIONS FOR WORKS CONTRACT RELEVANT TO SAFETY

- 1. Use of cell phones and other mobile electronic devices (including hands-free devices) in the work spot and during the operation of a vehicle in the BHEL premises is prohibited.



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2. Contract employees working on BHEL premises must wear appropriate personal protective equipment. Strict adherence to all required Personal Protective Equipment (Helmet, Safety Shoes and Goggles) are mandatory, specific PPE requirements will be based on job type or tasks performed.
3. Excessively loose-clothing, dhoti/Lungi is prohibited especially around rotating or moving equipment.
4. The contractors' work area should be kept clean and orderly, free of clutter and trash, so that work may proceed in a safe and orderly manner. Tools should be safely positioned during use and promptly put away when no longer required.
5. Fire-fighting, emergency shutdown devices, and life-saving equipment, should not be blocked by the contractor/employees and access to the path to this equipment should be maintained at all times.
6. Only approved equipment should be used in locations where flammable mixtures are present. A Hot Work Permit is required when open flames, or electric arcs are in the work area and while handling flammable materials.
7. Smoking is not allowed in work area.
8. It is recommended that the contractor should know & display the emergency phone numbers like Fire, Ambulance, Safety, Security etc. at their work area.
9. It is the responsibility of the contractor to understand and use the appropriate Work Permits and to verify any permit requirements at the location. Contractor must make necessary arrangements with their Representative to acquire appropriate authorization to perform those operations at the site.

36. SAFETY CONDITIONS: Tamil Nadu Factories Rules, 1950

- Rule 61F: Methods of Work: No process or work shall be carried on in any factory in such a manner as to cause risk of bodily injury.
- Rule 61G: Stacking and storing of materials etc.: No materials or Equipment shall be stacked or stored in such a manner as to cause risk of bodily injury.
- Rule 61-N and Rule 61- O: Workers to be provided with Personal Protective equipment suitable for the hazards and should be of good quality / have certification by Indian Standard Institute.
- Rule 96: Notification of Accidents: Shall be complied with as required in the Factories Act (Section 88 and Section 88A) and Tamil Nadu Factories Rules.

The following safety measures (whichever is applicable) should be strictly adhered to during execution of works at sites.

1. Providing the working platform with toe board and handrail for continuous working at heights.
2. Providing safety belt and life line at all times for men working at heights.
3. Providing dust or fume respirator in places where dust and fume concentration exists.
4. Providing goggles and welding screens.
5. Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
6. Providing rubber gloves for working on electrical works.
7. Ensuring proper lashing of the components while being transported in vehicles.
8. The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
9. Cylinders should not be used without regulators.
10. All excavations must be barricaded and red lamps must be provided.
11. All electrical connections must be properly earthed.
12. No work should be taken up for execution inside shop floor, without obtaining necessary work permit.



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13. Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in trusses, girders, roofing etc., of industrial and high roof buildings.
14. The contractor should maintain a register regarding the driver license particulars.
15. All personal protective equipment conforms with standard specification as per the details given in the code of conduct.
16. Contractor including their sub-contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measures. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

37. Safety precautions to be observed while transporting materials (WHICHEVER IS APPLICABLE): -

A) VEHICLE:

- 1) Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.
- 2) The light on right side, i.e. over the driver's cabin shall be in working condition.
- 3) Both the head lights as well as park lamps must be in working conditions.

B) MOVEMENT OF VEHICLE:

- 1) The vehicle should not travel at more than 20 kmph in our premises.
- 2) The Driver of the vehicle must possess heavy duty license and produce on demand by the Security Staff.
- 3) Vehicles carrying inflammable liquid in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid static electricity.
- 4) In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
- 5) The driving should "KEEP TO THE LEFT" at all places.
- 6) The vehicle should not be parked in road which could obstruct the vehicular traffic.
- 7) The vehicle should pass only through the approved routes. Short cuts should be forbidden.
- 8) There must be a safe distance behind another moving truck.
- 9) The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

38. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS /CONTRACTORS:

Penal action can be initiated on the suppliers / Contractors in line with extant 'Guidelines for Suspension of Business Dealings with Suppliers/ Contractors. The abridged version of extant 'Guidelines for suspension of business dealings with suppliers/ contractors' has been uploaded on <http://www.bhel.com> on "supplier registration page".

39. GENERAL:

The vehicles should not be moved directly inside the production building in case the materials are to be unloaded there. But the vehicle should be parked outside the building and the driver should ascertain the passage as well as the unloading points with the help of shop officials. This will avoid the congestion of blocking of traffic in the gangway.

40. NOTICE OF ACCIDENTS:

1. Notwithstanding anything contrary to this, in the event of accident the contractor shall be required to fill injury report and submit the Engineer in charge immediately and ensure the compliances of ESI / Workmen's



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compensation Act, Factories Act and Rules made thereunder. He shall also maintain a register of accident as per the Act.

2. The Contractor shall get the contract labour engaged by him insured under Workmen's Compensation policy from General Insurance Corporation of India before actually starting the work of contract. The insurance coverage should be for the entire period of Contract. The Contract shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in conjunction with the provisions of ESI Act)

41. Government Law's Covering Under This Contract:

The Contractor shall in respect of Personnel employed by him either directly or through sub-Contractors, comply with or cause to be complied with following statutory provisions and rules and in regard to all matters provided therein.

42. The Contract Labour (Regulation & Abolition) Act 1970 and the related Rules:

- a. The minimum wages Act 1948 and the related rules
- b. The payment of wages Act 1936 and the related rules.
- c. The Factories Act 1948 and related Tamil Nadu Rules.
- d. The Employees' Provident Fund & Miscellaneous provisions Act 1952.
- e. The Employees State Insurance Act 1948.
- f. Workmen Compensation Act 1923
- g. Payment of Bonus Act 1965
- h. Maternity Benefit Act, 1961
- i. Payment of Gratuity Act, 1972
- j. Inter-State Migrant Workmen (Regulation of Employment & Conditions of Service) Act, 1979
- k. Equal Remuneration Act, 1976
- l. Industrial Employment (Standing Order) Act, 1960 (In case of engaging 100 or more personnel)
- m. The Industrial Disputes Act 1947

And any other law, or modifications to the above or to the rules made there under from time to time.

43. Biometric Entry/Exit System for Contractor's Workmen:

1. The Entry/Exit of the employees engaged by contractor is to be regulated only through Biometric system.
2. The Contractor initially will be issued with a temporary gang pass for his/ her employees for a period of ten days.
3. The contractor should arrange photo coverage for all his/her employees within the above stipulated time.
4. The contractor has to submit FORM-I for all his/her contract employees. All the particulars required in FORM-I are to be provided by the contractor without fail.
5. Every employee of the Contractor shall be provided with Employment Card as per Form XIV (as per Rule 76 of the Contract Labour (Central) Rules, 1971 and the contractor shall instruct its employees to carry the Employment Card as well as Entry Card without fail, while entering/exiting factory.
6. The contractor should educate his employees in registering the attendance through the system.
7. Whenever a contract employee migrates or leaves service of the contractor, the contractor has to surrender the biometric card of the particular employee to Contract Cell with immediate effect, without fail.
8. On completion of the work, the contractor has to surrender all the biometric entry cards issued to its employees immediately to the contract cell. Otherwise, an amount of Rs.100/- per card will be deducted from the final bill/security deposit of the contractor.



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9. If any contract employee lose his/her entry card, the contractor shall arrange a duplicate entry card for the employee by paying an amount of Rs.100/-.

10. The Contractor is totally responsible for the biometric cards issued to his/ her employee.

11. The Contractor has to indemnify BHEL for all the damages and losses caused by his/her employees.

44. BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below:

1. Victim: Any person who suffers permanent disablement or dies in an accident as defined below
2. Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during manufacturing / operation and works incidental thereto at BHEL factories / offices and precincts thereof, project execution, erection and commissioning services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units / offices / townships and premises / Project Sites.
3. Compensation in respect of each of the victims:
 - a. In the event of death or permanent disability resulting from Loss of both limbs: Rs. 10,00,000/- (Rs. Ten Lakh)
 - b. In the event of other permanent disability: Rs. 7,00,000 (Rs. Seven Lakh)
4. Permanent Disablement: A disablement that is classified as a permanent total disablement under provision to Section 2(I) of the Employee's Compensation Act, 1923.



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RTGS/NEFT FORM

To
THE PURCHASE/CONTRACT EXECUTING AGENCY/BHEL

ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	Name & Address of the Supplier / Sub-contractor	
02	VENDOR CODE assigned by BHEL	
Details of Bank Account:		
03	NAME & ADDRESS OF THE BANK	
04	NAME OF THE BRANCH	
05	BRANCH CODE	
06	MICR CODE	
07	ACCOUNT NUMBER	
08	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT
09	BENEFICIARY'S NAME	
10	IFSC CODE OF THE BRANCH	
11	EMAIL ID	
12	TELEPHONE/MOBILE NO.	

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and / or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. **Original cheque leaf/cancelled cheque leaf of the above account is sent herewith.**

AUTHORISED SIGNATORY WITH NAME SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:
DATE:

(Manager / Officer's)
Signature Under Bank stamp and Name Seal
with Membership No :
(Telephone / Mobile No)

Forwarded to Accounts Dept.

We confirm the above details are verified with the records available with us.
Signature of the BHEL Executive with Name Seal (Operating the Contract/Services)



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Annexure-X

PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT (EMD)
(On non-Judicial paper of appropriate value)

Bank Guarantee No.....
Date.....

To
(Employer's Name and Address)
.....

Dear Sirs,

In accordance with the terms and conditions of Invitation for Bids/Notice Inviting Tender No.....**1**(Tender Conditions), M/s. having its registered office at**2** (hereinafter referred to as the 'Tenderer'), is submitting its bid for the work of.....**3** invited by**4**.(name of the Employer) through its Unit at

The Tender Conditions provide that the Tenderer shall pay a sum of Rs as Earnest Money Deposit in the form therein mentioned. The form of payment of Earnest Money Deposit includes Bank Guarantee executed by a Scheduled Bank.

In lieu of the stipulations contained in the aforesaid Tender Conditions that an irrevocable and unconditional Bank Guarantee against Earnest Money Deposit for an amount of**5**..... is required to be submitted by the Tenderer as a condition precedent for participation in the said Tender and the Tenderer having approached us for giving the said Guarantee,

We, the[Name & address of the Bank]
.....having our Registered Office at
.....(hereinafter referred to as the Bank) being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums of Rs..... **5**
.....(in words Rupees.....) without any reservation, protest, and recourse and without the beneficiary needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.
.....

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Vendors in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Tenderer shall have no claim against us for making such payment.

We Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Tender or to extend the time of submission of from time to time or to postpone for any time or from time to time any of the powers



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exercisable by the Employer against the said Tenderer and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Tenderer or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Tenderer or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Tenderer and notwithstanding any security or other guarantee that the Employer may have in relation to the Tenderer's liabilities.

This Guarantee shall be irrevocable and shall remain in force upto and including.....**6** and shall be extended from time to time for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Tenderer but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the **7** we shall be discharged from all liabilities under this Guarantee.

We, Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....**5**.....
- b) This Guarantee shall be valid up to**6**
- c) Unless the Bank is served a written claim or demand on or before **7** all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.
- d) **Any claim or dispute arising under the terms of this document shall be enforced or settled only in the courts in PUDUKKOTTAI located in TAMILNADU**

We, Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of

(Name of the Bank)

Date.....

Place of Issue.....

1 Details of the Invitation to Bid/Notice Inviting Tender

2 Name and Address of the Tenderer

3 Details of the Work

4 Name of the Employer

5 BG Amount in words and Figures

6 Validity Date

7 Date of Expiry of Claim Period

Notes:



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1. The Bank Guarantee shall be valid for at least six months.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.

4. In Case of Bank Guarantees submitted by Foreign Vendors.

a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor Country's Bank)

b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.



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Annexure-Y

PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)

(To be taken on Non-Judicial Stamp paper/e-stamp paper as per Stamp Act prevailing in the State)

Bank Guarantee No:

Date:

To

Bharat Heavy Electricals Limited
High Pressure Boiler Plant, Tiruchirappalli – 620014 / Power Plant Piping Unit, Thirumayam – 622507

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at "BHEL House" SIRI Fort, New Delhi – 110 049), through its Unit **High Pressure Boiler Plant, BHEL, Tiruchirappalli – 620014 / Power Plant Piping Unit, Thirumayam – 622507** having awarded to(NAME OF THE VENDOR / CONTRACTOR / SUPPLIER / VENDOR CODE) with its registered office at (NAME AND ADDRESS OF THE VENDOR / CONTRACTOR / SUPPLIER) hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No(DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE).....dated valued at Rs..... (CONTRACT VALUE) Rupees -----)/ FC.....(in words.....) for(PROJECT/SUPPLY DETAILS) (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to 5 % (Five Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,
2. We,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs ----- (BG AMOUNT IN FIGURES AND WORDS) (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.
3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (BG AMOUNT IN FIGURES AND WORDS)



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4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.
5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.
6. We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.
7. We.....BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
8. The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.
9. This Guarantee shall remain in force upto and including..... **(SIX MONTHS BEYOND THE CLOSING DATE OF CONTRACT)** and shall be extended from time to time for such period as may be desired by Employer.
10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.
11. Unless a demand or claim under this guarantee is made on us in writing on or before the **(SIX MONTHS BEYOND THE CLOSING DATE OF CONTRACT)** we shall be discharged from all liabilities under this guarantee thereafter.



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12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

13. We..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed..... (*BG AMOUNT IN FIGURES AND WORDS*)
- b) This Guarantee shall be valid up to (*SIX MONTHS BEYOND THE CLOSING DATE OF CONTRACT*)
- c) Unless the Bank is served a written claim or demand on or before (*SIX MONTHS BEYOND THE CLOSING DATE OF CONTRACT*) all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

14. We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

BANK IFSC AND MICR CODE

BANK EMAIL ID:

BANK PHONE NO:

AUTHORISED SIGNATORIES CELL PHONE NO:

BANK FAX NO



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Annexure-Z

PROFORMA OF BANK GUARANTEE FOR PERFORMANCE SECURITY

(To be taken on Non-Judicial Stamp paper/e-stamp paper as per Stamp Act prevailing in the State)

Bank Guarantee No:

Date:

To

Bharat Heavy Electricals Limited
High Pressure Boiler Plant, Tiruchirappalli – 620014 / Power Plant Piping Unit, Thirumayam – 622507

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at "BHEL House" SIRI Fort, New Delhi – 110 049), through its Unit **High Pressure Boiler Plant, BHEL, Tiruchirappalli – 620014 / Power Plant Piping Unit, Thirumayam – 622507** having awarded to(NAME OF THE VENDOR / CONTRACTOR / SUPPLIER / VENDOR CODE) with its registered office at (NAME AND ADDRESS OF THE VENDOR / CONTRACTOR / SUPPLIER) hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No(DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE).....dated valued at Rs..... (CONTRACT VALUE) Rupees -----)/ FC.....(in words.....) for(PROJECT/SUPPLY DETAILS) (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to 10 % (Ten Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,
2. We,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs ----- (BG AMOUNT IN FIGURES AND WORDS) (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.
3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (BG AMOUNT IN FIGURES AND WORDS)



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4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.
5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.
6. We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.
7. We.....BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
8. The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.
9. This Guarantee shall remain in force upto and including..... (TWELVE MONTHS BEYOND THE CLOSING DATE OF CONTRACT) and shall be extended from time to time for such period as may be desired by Employer.
10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.
11. Unless a demand or claim under this guarantee is made on us in writing on or before the (TWELVE MONTHS BEYOND THE CLOSING DATE OF CONTRACT) we shall be discharged from all liabilities under this guarantee thereafter.



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12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

13. We..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed..... (*BG AMOUNT IN FIGURES AND WORDS*)
- b) This Guarantee shall be valid up to (*TWELVE MONTHS BEYOND THE CLOSING DATE OF CONTRACT*)
- c) Unless the Bank is served a written claim or demand on or before (*TWELVE MONTHS BEYOND THE CLOSING DATE OF CONTRACT*) all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

14. We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

BANK IFSC AND MICR CODE

BANK EMAIL ID:

BANK PHONE NO:

AUTHORISED SIGNATORIES CELL PHONE NO:

BANK FAX NO



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LIST OF CONSORTIUM BANKS IN INDIA

List of Consortium Bank	
Sl. No.	Name of the Bank
1.	State Bank of India
2.	Canara Bank
3.	Axis Bank
4.	Bank of Baroda
5.	Central bank
6.	Citi Bank N.A
7.	Deutsche Bank
8.	Exim Bank
9.	Federal Bank Limited
10.	HDFC Bank Limited
11.	Hong Kong and Shanghai Banking Corporation Limited
12.	Indian Bank
13.	ICICI Bank Limited
14.	IDBI Bank Limited
15.	IndusInd Bank Limited
16.	Indian Overseas Bank
17.	Kotak Mahindra Bank Limited
18.	Punjab National Bank
19.	RBL Bank Ltd.
20.	Standard Chartered Bank
21.	Union Bank of India
22.	Yes Bank Limited

- (1) It should be typed in the Rs. 100 value of stamp paper.
- (2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.
- (3) It should be submitted with bank covering letter with sign and seal of the bank official.
- (4) Bank Guarantee issued by any of the Consortium Banks only will be accepted by BHEL.



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GENERAL DETAILS:

(To be filled by Bidder)

Tender Ref: PPPU: WC: 22: 017

Date: 13.09.2022

01	Name and full address of the Company / Firm	
02	Name of contact Person with Designation	
03	Contact Details:	
	Landline No.	
	Mobile No.	
	email ID:	
04	Local Office Address with Contact person, Phone No., Mobile No., email ID, Fax No. (If any)	
05	Vendor code allotted by BHEL if any	
06	List of BHEL units in which vendor has executed any type of contract previously or is currently executing any type of contract	



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TECHNO COMMERCIAL BID

(To be filled by bidder)

ELIGIBILITY CRITERIA DETAILS:

ANNEXURE - A

SI. NO	ELIGIBILITY CRITERIA	BIDDER'S RESPONSE
1.	EMD PAYMENT (Rs. 15,800/-) <i>1. Offer without EMD will be Rejected.</i> <i>2. EMD is not waived off for SME/NSIC/SSI/MSME vendors for this tender</i>	FDR No/DD No/SBI Collect Ref no. _____ Date _____ _____ Drawn from _____ (Bank) for Rs. _____/ only) (Proof to be attached in EPS)
2.	The contractor should have an Income Tax Registration (PAN). (Details of self- attested copy to be furnished) (Please mention Page No ----- in which this proof is attached in uploaded tender document)	PAN No. _____ (Proof to be attached in EPS)
3.	Goods & Service Tax (GST) registration / Application Reference Number. (copy of registration details indicating GSTIN/ARN to be submitted along with offer. (If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer). (Please mention Page No ----- in which this proof is attached in uploaded tender document)	Regn. No. – _____ (Proof to be attached in EPS)
4.	Company Status (Proprietorship/ Partnership Firm/LLP/One-person Company/Private Limited Company/Public Limited Company/Trust/Society) (Proof to be attached) (Please mention Page No ----- in which this proof is attached in uploaded tender document)	Company status: (Proof to be attached in EPS)
5.	The bidder shall have successfully supplied and installed a CCTV surveillance system in minimum one organization/ institution/ industry in the past seven years from the date of tender opening. Proof of experience from any organization other than BHEL Trichy / Thirumayam to be supported by TDS (Tax Deducted at Source) certificate issued by the organizations OR Form 26 AS or bank statement for transaction of payment.	(Proof to be attached in EPS)
6.	The bidder must compulsorily make a site visit to assess the existing CCTV surveillance system set-up (camera and server locations, cable routing layout and other operational requirements) before submission of their bids.	(Proof (MOM of Site Visit) to be attached in EPS)



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7.	Duly signed and filled copies of Annexures B and C shall be attached. (Please mention Page No ----- in which this proof is attached in uploaded tender document)	(Duly signed and stamped to be uploaded)
8.	Duly signed certificate of compliance in bidder's letter head shall be attached. (Annexure III) (Please mention Page No ----- in which this proof is attached in uploaded tender document)	("Certificate of compliance" to be attached in EPS which should be in bidder's letterhead)
9.	Duly signed Local Content Declaration in bidder's letter head shall be attached (Annexure II) (Please mention Page No ----- in which this proof is attached in uploaded tender document)	(Duly signed and stamped to be uploaded)
10.	Applicable GST rate (Please mention Page No ----- in which % is mentioned in uploaded tender document)	_____ %
OTHER INFORMATION / DETAILS:		
Sl. NO	CRITERIA	BIDDER'S RESPONSE
1.	General Details shall be attached. (Please mention Page No ----- in which this proof is attached in uploaded tender document)	("General Details" should be Submitted in EPS)

NOTE:

- All Pages of tender documents must be signed & sealed (digitally on 1st page or manually in each page) by the bidder before uploading in EPS portal. This shall ensure that the bidder has agreed to all conditions of tender document.**
- All supporting documents pertaining to the above Criteria must be signed & sealed (digitally on 1st page or manually in each page) by the bidder before uploading in EPS portal.**



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ANNEXURE – I
E-PAYMENTS

- This annexure to the techno-commercial bid explains how to make e-payments to BHEL- Tiruchirappalli through SBI e-collect.
- Vendors (EMD and SD Payments payable by others) can utilise this facility.
- Payments can be made using Internet Banking, Debit Cards/Credit Cards etc.
- SBI Charges a minimum amount (Service Charge) for every transaction. This may vary according to the MODE selected.

STEP BY STEP PROCEDURE:

Login to <https://www.onlinesbi.com>

1. Select State Bank Collect available on the top (pre login page)
2. Accept the terms and conditions and click “PROCEED”
3. Select State “TAMILNADU “and Institution type “INDUSTRY “.
4. Select “BHEL TRICHY under “INDUSTRY”.
5. In the next page, Select APPROPRIATE category, fill details correctly & click “SUBMIT”.
6. If all details entered are correctly populated, click “CONFIRM “to proceed.
7. Make payment as per your convenience. (Options available are payment of fees through SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches).
8. SAVE & Keep the copy of receipt for future reference.

HOW TO TAKE RECEIPT FOR A PAYMENT MADE, EVEN ON A LATER DATE:

(PLEASE CHECK THE STATUS BEFORE MAKING PAYMENT SECOND TIME)

1. Login to www.onlinesbi.com
2. Select State Bank Collect available on the top (pre login page)
3. Accept the terms and conditions and click “PROCEED”
4. Select “PAYMENT HISTORY “option available on the left side of screen.
5. Using two options as mentioned below, you can get the receipt:
 - a. Type the same Date of Birth, Mobile Number which you have entered at the time of making payment through SB collect. Select the date range and submit.
6. If you know the payment reference number, then enter the Reference number (DU...) along with anyone information (Date of Birth / Mobile number, which you have entered at the time of making payment). Select the date range and submit.
7. In the next page, take print out of receipt.



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ANNEXURE II (Local Content)
(TO BE SUBMITTED ON BIDDER'S LETTER HEAD)

Tender Ref No.: PPPU: WC: 22: 017

Dt. 13.09.2022

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P 45021/2/2017 B.E II dated 15.06.2017, and further modified order dt. 28.05.2018 & 04.06.2020.

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (.....%) defined in the above government notification for the goods/Services against above mentioned enquiry Number.

Details of location at which local value addition/ Service will be made is as follows:

Address	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:

Seal:

Signature:



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Annexure III -CERTIFICATE OF COMPLIANCE

(To be submitted in bidder's letter head)

Tender Ref No: PPPU: WC: 22: 017

Date: 13.09.2022

To

Sr Manager / Contracts, MS & DTG,
Power Plant Piping Unit,
BHEL – Thirumayam-622 507.

Sir,

We have carefully read the tender specifications connected with the above tender and have understood the technical requirements and conditions to the above tender which consists of

1. Eligibility criteria
2. Scope of work
3. Commercial Terms & Conditions
4. Conditions Related to The Welfare of Labors
5. General Terms and Conditions.
6. Technical Bid
7. RTGS/NEFT Format
8. General Details
9. All Annexures

I/We M/s.

have read and clearly understood all the Terms and conditions in Tender Schedule of and accordingly accept the same without any deviation what so ever.

- I/We declares that I/We 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 I/We found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.
- I/ We unconditionally agree to all the tender conditions and no new conditions are imposed by us in the technical / price bid. I understand in the event of imposing any condition in the technical / price bid, such condition would be ignored by BHEL and only the prices will be considered for the purpose of evaluation”
- I/ We confirm that none of our group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on www.bhel.com) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company.
- I/ We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL- Trichy or any other BHEL Unit or any PSU/ Government organization.
- I/We also declare that there is no case or charge under investigation, enquiry or trial against me/us or any conviction in a court of law nor have been banned by any organizations /Govt. on any grounds.
- I/ We confirm that other than us, none of our group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).



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- I/ We confirm that if any of the above statement / information furnished by us in this tender is found to be false/ fake at any stage of tender evaluation or during execution of contract, BHEL will have the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc. as deemed fit.
- If the contract is awarded to us the prices shall be kept firm till the completion of contract.
- If the contract is awarded to us, I /We confirm that security deposit (SD) required of execution of the contract will be submitted on or before commencement date as indicated in LOI. In case of delay in submission of performance security (SD), enhanced SD which would include interest (SBI rate+6%) for the delayed period, shall be submitted by bidder. Further, if performance security (SD) 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.



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Annexure-B

Tender Ref No.: PPPU: WC: 22: 017

Dt. 13.09.2022

Item SI No.10 [PTZ 2MP IR Network Camera]			
Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Camera Module		
1.1	Image Sensor	1/2.8" progressive scan CMOS	Vendor to specify
1.2	Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON); B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR	Vendor to confirm
1.3	Focus	The following options are required: 1. Auto 2. Semi-automatic 3. Manual	Vendor to confirm
1.4	Day & Night	ICR	Vendor to confirm
1.5	Shutter Speed	1/1 s to 1/30,000 s	Vendor to confirm
1.6	WDR	120 dB WDR	Vendor to specify
1.7	White Balance	The following White Balance options are required: Auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, Manual WB, Locked WB	Vendor to confirm
1.8	Digital Zoom	16x	Vendor to specify
1.9	Optical Zoom	25x	Vendor to specify
1.10	Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable	Vendor to confirm
2	Lens		
2.1	Focal Length	4.8 mm to 120 mm, 25 × Optical	Vendor to specify
2.2	Zoom Speed	Approx. 3.6 s	Vendor to specify
2.3	Field of View (FOV)	Horizontal field of view: 57.6° to 2.5° (wide-tele), Vertical field of view: 34.4° to 1.4° (wide-tele), Diagonal field of view: 64.5° to 2.9° (wide-tele)	Vendor to confirm
2.4	Working distance	100 mm to 1500 mm (wide-tele)	Vendor to specify
2.5	Aperture Range	F1.6	Vendor to specify
3	IR		
3.1	IR distance	100 m	Vendor to specify
4	PTZ		
4.1	Movement Range (Pan)	360°	Vendor to confirm



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4.2	Pan Speed	Configurable, from 0.1°/s to 80°/s, Preset speed: 80°/s	Vendor to specify
4.3	Movement Range (Tilt)	From -15° to 90° (auto-flip)	Vendor to specify
4.4	Tilt Speed	Configurable, from 0.1°/s to 80°/s Preset Speed: 80°/s	Vendor to specify
4.5	Proportional Zoom	Yes	Vendor to confirm
4.6	Presets	300	Vendor to specify
4.7	Patrol Scan	8 patrols, up to 32 presets for each patrol	Vendor to confirm
4.8	Pattern Scan	4 pattern scans	Vendor to confirm
4.9	Power-off Memory	Yes	Vendor to confirm
4.10	Park Action	The following options are required: Preset, Pattern Scan, Patrol Scan, Auto Scan, Tilt Scan, Frame Scan, Panorama Scan	Vendor to confirm
4.11	3D Positioning	Yes	Vendor to confirm
4.12	PTZ Status Display	Yes	Vendor to confirm
4.13	Preset Freezing	Yes	Vendor to confirm
4.14	Scheduled Task	The following options are required: Preset, Pattern Scan, Patrol Scan, Auto Scan, Tilt Scan, Frame Scan, Panorama Scan, Dome Reboot, Dome Adjust, Aux Output	Vendor to confirm
5	Compression Standard		
5.1	Stream Type	Main stream, Sub-stream, Third stream	Vendor to confirm
5.2	Video Compression	H.265, H.264, MJPEG	Vendor to confirm
5.3	Video Bitrate	32 Kbps to 16384 Kbps	Vendor to specify
5.4	Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM	Vendor to confirm
5.5	Audio Bitrate	MP2L2: 32kbps, 40kbps, 48kbps, 56kbps, 64kbps, 80kbps, 96kbps, 112kbps, 128kbps, 144kbps, 160kbps, 192kbps	Vendor to confirm
5.6	SVC	Yes	Vendor to confirm
6	Smart Features		
6.1	Basic Event	Audio exception, motion detection, video tampering alarm, exception	Vendor to confirm
6.2	Smart Event	Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Object Removal Detection, Unattended Baggage Detection	Vendor to confirm
6.3	Smart Record	ANR (Automatic Network Replenishment), Dual-VCA	Vendor to confirm
6.4	ROI	Main stream, sub-stream and third stream respectively support four fixed areas.	Vendor to confirm



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7	Image		
7.1	Max. Resolution	1920 x 1080	Vendor to confirm
7.2	Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)	Vendor to confirm
7.3	Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)	Vendor to confirm
7.4	Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)	Vendor to confirm
8	Network		
8.1	Network Storage	NAS (NFS, SMB/ CIFS), ANR	Vendor to confirm
8.2	Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour	Vendor to confirm
8.3	API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK	Vendor to confirm
8.4	Simultaneous Live View	Up to 20 channels	Vendor to specify
8.5	User/Host	Up to 32 users 3 levels: Administrator, Operator and User	Vendor to specify
8.6	Security Measures	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter	Vendor to confirm
8.7	Client	iVMS-4200, Hik-Connect, HikCentral	Vendor to confirm
8.8	Web Browser	Shall be compatible with IE8+ and Chrome 57+.	Vendor to confirm
9	Interface		
9.1	Communication Interface	RJ45, self-adaptive 10M/100M Ethernet port	Vendor to specify
9.2	Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%,	Vendor to specify
9.3	Audio Output	1 audio output, line level, impedance: 600 Ω	Vendor to specify
9.4	Alarm Input	1 alarm input	Vendor to specify
9.5	Alarm Output	1 alarm output	Vendor to specify
10	General		
10.1	Language (Web Browser Access)	English language compulsory. Other languages are optional.	Vendor to confirm



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10.2	Power Supply	BHEL shall provide Single Phase 230V AC Input Power Supply at one point, for each camera. Vendor to make necessary arrangements to provide power supply to the cameras from this point.	Vendor to note and confirm
10.3	Working Temperature	0 °C to +45 °C.	Vendor to specify
10.4	Working Humidity	Less than or equal to 90%.	Vendor to specify
10.5	Protection Level	IP66 Standard, 4000V Lightning Protection, Surge Protection and Voltage Transient Protection.	Vendor to confirm
10.6	Material	ADC 12, PC, PC+10% GF or higher grade	Vendor to specify
10.7	The camera shall be able to clearly identify persons or objects within its field of view.	Minimum distance at which objects can be clearly identified: 150m.	Vendor to specify the exact distance.
10.8	Make and model	Hikvision (Model: DS-2DE4225IWDE) or its equivalent in other makes.	Vendor to specify
10.9	The camera shall be provided with all requisite accessories like power adapters, mounting fixtures, other fasteners etc.		Vendor to confirm
10.10	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm

Item SI No.20 [4 MP IR Fixed Bullet Network Camera]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Camera		
1.1	Image Sensor	1/3" Progressive Scan CMOS	Vendor to specify
1.2	Min. Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR	Vendor to confirm
1.3	Shutter Speed	1/3 s to 1/100,000 s	Vendor to confirm
1.4	Slow Shutter	Yes	Vendor to confirm
1.5	Day & Night	IR Cut Filter	Vendor to confirm
1.6	Digital Noise Reduction	3D DNR	Vendor to confirm
1.7	WDR	120dB	Vendor to specify
1.8	3-Axis Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	Vendor to specify
2	Lens		
2.1	Focal length	2.8, 4, 6, 8 mm	Vendor to specify
2.2	Aperture	F1.6	Vendor to specify
2.3	Focus	Fixed	Vendor to specify



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2.4	Field of View (FOV)	2.8 mm, horizontal FOV: 103°, vertical FOV: 58°, diagonal FOV: 123°. 4 mm, horizontal FOV: 83°, vertical FOV: 45°, diagonal FOV: 99°. 6 mm, horizontal FOV: 51°, vertical FOV: 29°, diagonal FOV: 58°. 8 mm, horizontal FOV: 39°, vertical FOV: 22°, diagonal FOV: 45°	Vendor to confirm
2.5	Lens Mount	M12	Vendor to confirm
3	IR		
3.1	IR Range	Up to 30 m	Vendor to specify
3.2	Wavelength	850nm	Vendor to confirm
4	Compression Standard		
4.1	Video Compression	Main stream: H.265, H.264; Sub-stream: H.265, H.264, MJPEG; Third stream: H.265, H.264	Vendor to confirm
5	Smart Feature-set		
5.1	Smart Event	Line crossing detection, intrusion detection, face detection	Vendor to confirm
5.2	Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)	Vendor to confirm
5.3	Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record. Trigger captured pictures uploading: FTP, HTTP, NAS, Email. Trigger notification: HTTP, ISAPI, Email	Vendor to confirm
5.4	Region of Interest	1 fixed region for main stream and sub-stream	Vendor to confirm
6	Image		
6.1	Max. Resolution	2688 × 1520	Vendor to specify
6.2	Main Stream	50Hz: 25fps (2688 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720). 60Hz: 30fps (2688 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720)	Vendor to confirm
6.3	Sub-Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240). 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240).	Vendor to confirm
6.4	Third Stream	50Hz: 25fps (1280 × 720, 640 × 360, 352 × 288). 60Hz: 30fps (1280 × 720, 640 × 360, 352 × 240).	Vendor to confirm



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6.5	Image Enhancement	BLC, 3D DNR, HLC	Vendor to confirm
6.6	Image Setting	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser	Vendor to confirm
6.7	Day/Night Switch	The following options are required: Day, Night, Auto, Schedule	Vendor to confirm
7	Network		
7.1	Network Storage	Support Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR	Vendor to confirm
7.2	Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS	Vendor to confirm
7.3	General Function	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening	Vendor to confirm
7.4	Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2	Vendor to confirm
7.5	API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK	Vendor to confirm
7.6	Simultaneous Live View	Up to 6 channels	Vendor to specify
7.7	User/Host	Minimum 10 users. 3 levels: Administrator, Operator and User.	Vendor to specify
7.8	Client	iVMS-4200, Hik-Connect, Hik-Central	Vendor to confirm
7.9	Web Browser	Shall be compatible with IE8+ and Chrome 57+.	Vendor to confirm
8	Interface		
8.1	Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port	Vendor to specify
8.2	On-board storage	Built-in Micro SD/SDHC/SDXC slot, minimum 64 GB.	Vendor to specify
8.3	Reset Button	Yes.	Vendor to confirm
9	General		
9.1	Operating Conditions	0 °C to +45 °C, Humidity 95% or less (non-condensing)	Vendor to specify
9.2	Web Client Language	English language compulsory. Other languages are optional.	Vendor to confirm



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9.3	Power Supply	BHEL shall provide Single Phase 230V AC Input Power Supply at one point, for each camera. Vendor to make necessary arrangements to provide power supply to the cameras from this point.	Vendor to note and confirm
9.5	Protection Level	IP67 or higher.	Vendor to specify
9.6	Material	ADC (or) PC (or) Metal	Vendor to specify
9.7	Make and model	Hikvision (Model: DS-2CD2043GO-I) or its equivalent in other makes.	Vendor to specify
9.8	The camera shall be provided with all requisite accessories like power adapters, mounting fixtures, other fasteners etc.		Vendor to confirm
9.9	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm

Item SI No.30 [16 Channel Network Video Recorder]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Video and Audio		
1.1	IP Video Input	16-ch	Vendor to specify
1.2	Incoming Bandwidth	Minimum 100 Mbps.	Vendor to specify
1.3	Outgoing Bandwidth	Minimum 100 Mbps.	Vendor to specify
1.4	HDMI Output	Upto 4K @ suitable frequency compatible with the offered model.	Vendor to specify
1.5	VGA Output	Upto 1080p @ suitable frequency compatible with the offered model.	Vendor to specify
1.6	Video Output Mode	HDMI/VGA independent output	Vendor to confirm
1.7	Audio Input	1-ch, RCA (2.0 Vp-p, 1 KΩ)	Vendor to confirm
1.8	Audio Output	1-ch, RC (Linear, 1 KΩ)	Vendor to confirm
1.9	Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1kΩ, using the audio input)	Vendor to confirm
2	Decoding		
2.1	Decoding Format	H.265, H.265+, H.264, H.264+	Vendor to confirm
2.2	Recording Resolution	Minimum 6MP.	Vendor to specify
2.3	Synchronous Playback	16-ch	Vendor to specify
2.4	Decoding Capability	8-ch @ minimum 1080p (30 fps).	Vendor to specify
2.5	Stream Type	Video, Video & Audio	Vendor to confirm
2.6	Audio Compression	G.711ulaw, G.711alaw, G.722, G.726	Vendor to confirm
3	Network		
3.1	Remote Connection	128-ch	Vendor to specify
3.2	Network Protocol	Shall support TCP/IP, DHCP, IPv4, IPv6, DNS, NTP, HTTP, HTTPS.	Vendor to confirm



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3.3	Network Interface	1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	Vendor to confirm
4	Auxiliary Interface		
4.1	SATA	2 SATA interfaces	Vendor to specify
4.2	Capacity	Up to 10 TB capacity for each HDD	Vendor to specify
4.3	USB Interface	Minimum 2 × USB 2.0.	Vendor to specify
4.4	Alarm In/Out	4/1	Vendor to specify
5	General		
5.1	Power Supply	BHEL shall provide Single Phase 230V AC Input Power Supply at one point. Vendor to make necessary arrangements to provide power supply to the NVR from this point.	Vendor to note and confirm
5.2	Working Temperature	0 °C to +45 °C.	Vendor to specify
5.3	Working Humidity	Less than or equal to 90%.	Vendor to specify
6	Certification		
6.1	FCC	Shall conform to Part 15 Subpart B, ANSI C63.4-2014. Vendor to confirm.	Vendor to confirm
6.2	CE	Shall conform to EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017. Vendor to confirm.	Vendor to confirm
7	Make and model	Hikvision (Model: DS-7616NI-K2) or its equivalent in other makes. Vendor to specify.	Vendor to specify
7.1	The NVR shall be provided with all requisite accessories like power adapters, mounting fixtures and fasteners (if any) etc.		Vendor to confirm
7.2	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm

Item SI No.40 [CAT6 UTP Cable]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Specifications:		
1.1	Category	6 UTP Solid cable	Vendor to specify
1.2	Conductor	23 AWG (Solid)	Vendor to specify
1.3	Conductor Material	Bare Copper	Vendor to specify
1.4	Insulation Material	HD-PE	Vendor to specify
1.5	Cable OD	6.1mm ±0.2mm	Vendor to specify
1.6	Resistance Unbalance	5% Max	Vendor to specify
1.7	Capacitance Unbalance	330pF/100m	Vendor to specify
1.8	Delay Skew	<45 nS	Vendor to specify
2	Quantity	1 Box [1 Box=305 Mtr]	Vendor to confirm



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Item SI No.50 [6 CORE FIBER CABLE]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Specifications:		
1.1	Minimum No. of Cores	6 Core	Vendor to specify
1.2	Cable Type	Armoured	Vendor to specify
1.3	Cable Diameter	9 mm (+/- 0.3)	Vendor to specify
1.4	Mode Type	Single Mode	Vendor to specify
1.5	Jacket Material	HDPE / LSZH	Vendor to specify
1.6	Operating Temperature	0 °C to +45 °C.	Vendor to specify
1.7	Storage Temperature	20 °C to +70 °C.	Vendor to specify

Item SI No.60 [Media Converter (UTP to OFC)]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Specifications:		
1.1	Shall Convert 1000 Base - T to 1000 Base - LX		Vendor to confirm
1.2	Fiber wavelength	1300 nm	Vendor to specify
1.3	Minimum Distance for support	2 Km	Vendor to specify
1.4	Ports	RJ - 45 and Fiber port (SC type connector)	Vendor to specify
1.5	Mode	Single - mode	Vendor to specify
1.6	Auto MDI support	Yes.	Vendor to confirm
1.7	Operating Temperature	0 °C to +45 °C.	Vendor to specify
1.8	Storage Temperature	20 °C to +70 °C.	Vendor to specify
1.9	Operating Humidity	Less than 90% non-condensing.	Vendor to specify
1.10	Operating Voltage	BHEL shall provide Single Phase 230V AC power supply.	Vendor to note and confirm
1.11	Forwarding mode	Store and Forward	Vendor to specify
1.12	Packet Buffer Memory	1Mbit	Vendor to specify
1.13	MTBF - hours	Min 1,00,000 hours.	Vendor to specify
1.14	Emission EMI and Safety Certifications	As per CE,FCC	Vendor to confirm
1.15	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm



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Item SI No.70 [4 (or) 5 PORT POE NETWORK SWITCH]			
Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Specifications:		
1.1	No of ports	4 (or) 5 nos of 10/100/1000 Mbps (PoE) ports.	Vendor to specify
1.2	PoE Standard	IEEE 802.3af/802.3at	Vendor to confirm
1.3	Auto MDI/MDIX	Yes	Vendor to confirm
1.4	Switch Capacity	Minimum 10 Gbps.	Vendor to specify
1.5	Transmission method	Store-and-forward.	Vendor to confirm
1.6	Max. Packet Forwarding Rate	Minimum 7 Mpps	Vendor to specify
1.7	Operating Temperature	0 to 40 °C.	Vendor to specify
1.8	Storage Temperature	0 to 70 °C.	Vendor to specify
1.9	Operating Humidity	Less than or equal to 90%.	Vendor to specify
1.10	Storage Humidity	Less than or equal to 95%.	Vendor to specify
1.11	Power Input	Shall be compatible to power supply in the range 180 to 240 V, 50Hz AC	Vendor to confirm
1.12	RAM Buffer	Minimum 64KB per device	Vendor to specify
1.13	EMI Certifications	Shall conform to FCC, CE, VCCI, BSMI	Vendor to confirm
1.14	Safety	Shall conform to cUL, CE LVD, CB, BSMI	Vendor to confirm
1.15	Shall be compliant with Energy Efficient Ethernet (IEEE 802.3az)	Yes.	Vendor to confirm
1.16	Shall be RoHS compliant	Yes.	Vendor to confirm
1.17	The POE switch shall have features such as link status detection and cable length detection	Yes.	Vendor to confirm
1.18	The POE switches shall be provided with all requisite accessories like power adapters, mounting fixtures and fasteners (if any) etc.		Vendor to confirm
1.19	Make and model	D-Link (Model: DGS-1005P) or its equivalent in other makes. Vendor to specify.	Vendor to specify
1.20	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm

Item SI No. 80 [8 PORT POE NETWORK SWITCH]			
Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Specifications:		
1.1	No of ports	8 x 10/100/1000 Mbps (PoE)	Vendor to specify
1.2	PoE Standard	IEEE 802.3af/802.3at	Vendor to confirm



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1.3	Auto MDI/MDIX	Yes	Vendor to confirm
1.4	Switch Capacity	Minimum 10 Gbps.	Vendor to specify
1.5	Max. Packet Forwarding Rate	Minimum 11.9 Mpps	Vendor to specify
1.6	Operating Temperature	0 to 40 °C.	Vendor to specify
1.7	Storage Temperature	0 to 70 °C.	Vendor to specify
1.8	Operating Humidity	Less than or equal to 90%.	Vendor to specify
1.9	Storage Humidity	Less than or equal to 95%.	Vendor to specify
1.10	Power Input	Shall be compatible to power supply in the range 180 to 240 V, 50Hz AC.	Vendor to confirm
1.11	MTBF	Minimum 5,00,000 hrs.	Vendor to specify
1.12	Flash Memory Size	Minimum 2 Mbytes	Vendor to specify
1.13	Ventilation	Fan/Fanless.	Vendor to specify
1.14	Packet Buffer Size	Minimum 1.5 Mbits	Vendor to specify
1.15	EMI Certifications	Shall conform to FCC Class B, CE Class B, VCCI Class B, BSMI, CCC	Vendor to confirm
1.16	Safety	Shall conform to cUL, CE LVD, CB, BSMI, CCC	Vendor to confirm
1.17	Shall be compliant with Energy Efficient Ethernet (IEEE 802.3az)	Yes.	Vendor to confirm
1.18	Shall be compliant with 802.3ad Link Aggregation	2 groups, 2-4 ports per group.	Vendor to confirm
1.19	The POE switch shall have the following software features: Loopback Detection (LBD), Port Mirroring, IGMP Snooping, VLAN (Voice, Port-based and Surveillance), Port-based Bandwidth Control, Traffic Segmentation, Cable Diagnostics, Web-based GUI, Queue Handling, SNMP, Broadcast/Multicast/Unicast Storm Control	Yes.	Vendor to confirm
1.20	The POE switches shall be provided with all requisite accessories like power adapters, mounting fixtures and fasteners (if any) etc.		Vendor to confirm
1.21	Make and model	D-Link (Model: DGS-1100-08P) or its equivalent in other makes. Vendor to specify.	Vendor to specify
1.22	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm

Item SI No.90 [2 TB Hard disk]

SI.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1.1	Capacity	2TB	Vendor to specify



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1.2	Compatibility	Windows and Apple computers with a Serial ATA interface	Vendor to confirm
1.3	Interface Speed	SATA up to 6 Gbit/s	Vendor to specify
1.4	Form Factor	3.5 inch	Vendor to specify
1.5	Rotational Speed	7,200 RPM	Vendor to specify
1.6	Average Latency Time	4.17 ms	Vendor to specify
1.7	Buffer Size	64 MB	Vendor to specify

Item SI No.100 [Network Rack 4U]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1.1	Rack Standard	Conforms to DIN 41494 or equivalent standard	Vendor to confirm
1.2	Construction	Molded/Welded	Vendor to confirm
1.3	Front Door	Lockable Toughened Glass Door	Vendor to confirm
1.4	Basic Frame	Steel	Vendor to confirm
1.5	Equipment Mounting	DIN Standard Slots	Vendor to confirm
1.6	Mounting Angle	19" Mounting angles made of formed steel	Vendor to confirm
1.7	Standard Finish	Powder Coated	Vendor to confirm
1.8	Top and Bottom Cover	Welded to Frame, Vented and Field Cable entry exit cut outs	Vendor to confirm
1.9	Standard Color	Grey or Black	Vendor to specify
1.10	Static Load	Minimum 25 kgs.	Vendor to specify

Item SI No.110 [1 kVA UPS with Battery]

Sl.No	Description for BHEL requirement	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Capacity	1 kVA.	Vendor to specify
2	Input		
2.1	Input voltage range	110VAC - 300VAC @ 60% load.	Vendor to specify
2.2	Frequency range	40Hz - 70Hz.	Vendor to specify
2.3	Phase	Single phase with ground.	Vendor to specify
2.4	Power factor	Minimum 0.99.	Vendor to specify
3	Battery		
3.1	Battery charging	Constant Current & Constant Voltage with Optional Temperature Compensated Battery Charging	Vendor to confirm



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4	Output		
4.1	Nominal Output Voltage	220/ 230/ 240VAC	Vendor to confirm
4.2	Frequency range	50Hz +/- 0.1Hz	Vendor to confirm
4.3	Current crest ratio	03:01	Vendor to confirm
4.4	Waveform (Battery mode)	Pure sine wave	Vendor to confirm
4.5	Overload capability		
4.5.1	105-110%	10 minutes	Vendor to specify
4.5.2	111-130%	1 minute	Vendor to specify
5	Efficiency		
5.1	Overall efficiency (AC Mode/ Battery Mode)	Minimum 88 / 83%.	Vendor to specify
6	Environment		
6.1	Operating Humidity/Temperature	20-90% RH @ 0-40°C (Non-Condensing).	Vendor to specify
6.2	Noise Level	Less than 50dBA @ 1 meter	Vendor to specify
7	Ingress protection	IP 20 or above.	Vendor to specify
8	The UPS shall comply with the following Standards: 1. EMC (EN 62040-2) 2. Safety (EN 62040-1) 3. Performance (EN 62040-3)		Vendor to confirm
9	Datasheet/catalog of the offered model shall be furnished along with the bid.		Vendor to confirm



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Annexure-C

Tender Ref No.: PPPU: WC: 22: 017

Dt. 13.09.2022

CCTV Application Software for BHEL Thirumayam		
Sl.No	Basic/Minimum Requirement of BHEL	To be specified/ confirmed by bidder
1	Wired networking has to be deployed for interconnecting the 26 cameras (12 nos-PTZ camera, 14 nos-Bullet camera) for BHEL Thirumayam. From the cameras, data shall flow through the necessary components and intermediate switches to the NVR and storage hard disk.	Vendor to confirm
2	Network switches shall be capable to handle the total video data bandwidth of all the cameras continuously.	Vendor to confirm
3	Uplink port should have sufficient speed to avoid network congestion.	Vendor to confirm
4	SOFTWARE SPECIFICATIONS & FEATURES :	
4.1	The licensed Network Video management software with Video Analytics shall be provided with its product key. The software shall support & shall be compatible with multi branded cameras for viewing, recording, controlling and analysing the entire IP based wired CCTV system. Also the software should support future versions of Windows Operating Systems.	Vendor to confirm
4.2	The software shall be capable to integrate/operate all 26 cameras and the entire IP based wired CCTV system for BHEL Thirumayam.	Vendor to confirm
4.3	The CCTV application software shall perform the following applications simultaneously without interfering with any other application installed in the system: i. Live display of cameras ii. Live display of camera sequences iii. Control of PTZ cameras iv. Playback of archived video v. Retrieval of archived video vi. Instant replay of live video vii. Configuration of system setting	Vendor to confirm
4.4	The CCTV application software shall support any form of IP network connectivity, including : LAN, WAN, VPN and internet technologies.	Vendor to confirm
4.5	The CCTV application software shall automatically adapt to the network topology and use the best available method to receive streaming video.	Vendor to confirm



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4.6	The CCTV application software shall have following monitoring features: i. Shall allow for live monitoring of video ii. The monitor shall enable to view 1 to 16 video tiles simultaneously on a single HDMI/VGA iii. The operator shall be able to control the playback with play, pause, forward, and speed buttons.	Vendor to confirm. Vendor to also specify any other additional features available in their offered software.
4.7	The operator shall be able to choose and trigger an action from a list of available actions included but are not limited to: i. View camera in a video file ii. Starting/ stopping PTZ preset pattern	Vendor to confirm
4.8	The CCTV application software shall provide management and control over the system using a standard PC mouse, keyboard and joystick, as necessary.	Vendor to confirm
5	General System Overview :	
5.1	System should operate in both Day & Night in Auto and manual mode. Recording and viewing should be done simultaneously	Vendor to confirm
5.2	All equipments should be capable of operation for 24 X 7 hours unmonitored surveillance recording with remote viewing and control	Vendor to confirm
5.3	Video records search function by camera, date and time segments shall be provided.	Vendor to confirm
5.4	Backup facility shall be provided for video recordings and snapshots (stills) manually. It should be able to export the selected images and videos to external storage device according to user needs.	Vendor to confirm
5.5	The CCTV application software should be capable to display & manage the entire surveillance system. It should be capable to support multi branded cameras, media-converto, PTZ controller, storage and backup devices etc. It should support SNMP compliant devices such as switches.	Vendor to confirm
5.6	The CCTV application software shall support customized logging reports.	Vendor to confirm
5.7	The software shall support multiple user accounts with various security privileges/ access such as access to only specific camera groups.	Vendor to confirm
5.8	The system shall support play/back during recording without any interruption.	Vendor to confirm
5.9	The system shall support AVI file export function.	Vendor to confirm
5.10	The software should have in-built facility to store configuration of cameras.	Vendor to confirm
5.11	The CCTV application software shall able to control all cameras ie.mouse controllable PTZ controls, color balance of camera and also have capacity for recording etc.	Vendor to confirm



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5.12	The software should be able to display camera current status and relevant information including camera name, time/date, network status, recording, storage and fault alarm status.	Vendor to confirm
5.13	The administrator only should be able to add, edit & delete user with rights.	Vendor to confirm
5.14	Users should be possible to view the cameras and control them as per the permission assigned by the administrator.	Vendor to confirm
5.15	It should have recording modes for continuous or manual on dates, time and camera wise.	Vendor to confirm
5.16	It should provide on screen controls for remote operation of all cameras.	Vendor to confirm
5.17	The CCTV system application software should allow retrieval of data instantaneously at any date/time interval chosen through search functionality of the application software. The data should be automatically overwritten once the data storage for 15 days is over.	Vendor to confirm
5.18	The application software should support and shall be capable of encrypting the data from end to end.	Vendor to confirm