



**BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)**

POWER SECTOR, EASTERN REGION
BHEL BHAWAN, PLOT NO. DJ-9/1, SECTOR II,
SALT LAKE CITY, KOLKATA, WEST BENGAL, INDIA
Phone : 033-23216130-31, 033-23216130 FAX : 033-23211960

NOTICE INVITING TENDER (NIT)

OFFERS are invited from **REPUTED AND EXPERIENCED LOCAL BIDDERS** (meeting pre-qualification criteria as mentioned) **through E-PROCUREMENT PORTAL <https://eprocurebhel.co.in> ONLY** for the subject job by the undersigned on behalf of BHARAT HEAVY ELECTRICALS LIMITED as per the tender document.

ISSUE OF TENDER TO ANY BIDDER SHALL NOT CONSTRUCT THAT THE BIDDER IS CONSIDERED TO BE QUALIFIED.

FOLLOWING POINTS RELEVANT TO THE TENDER MAY PLEASE BE NOTED AND COMPLIED WITH:

Salient Features of NIT

SL NO	ISSUE	DESCRIPTION
i	E-TENDER NUMBER	PSER: PUR: MSX: 223(I): 029 (ENQ: 22: PP: 0015: PUR: 41) DATE: 07/07/2022
ii	Broad Scope of job	SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SAFETY SURVEILLANCE SYSTEM THROUGH PTZ CAMERA AT BHEL NORTH KARANPURA SITE, TANDWA, JHARKHAND.
iii	DETAILS OF TENDER DOCUMENT	
a)	PART – B	GENERAL CONDITIONS OF CONTRACT (GCC) Applicable
b)	PART – C	TECHNICAL SCOPE AND SPECIAL TERMS AND CONDITIONS (SCC) Applicable
c)	PART – F	GENERAL TERMS & CONDITIONS OF REVERSE AUCTION Applicable
d)	PART – E	PRICE SCHEDULE and UNPRICE SCHEDULE (ABSOLUTE VALUE) Applicable
e)	PART – H	FORMS AND PROCEDURES ETC. Applicable
iv	ISSUE OF TENDER DOCUMENTS	a) Online through e-procurement platform at https://eprocurebhel.co.in/ b) in BHEL website (www.bhel.com, CPP Portal): For tender view purpose only. START DATE: 07/07/2022 a) Applicable b) Applicable
v	DUE DATE & TIME OF OFFER SUBMISSION	Date: 18/07/2022, Time: 14-00 Hrs. (Offer to be submitted online only through e-procurement platform at https://eprocurebhel.co.in/) Applicable
vi	TECHNO-COMMERCIAL BID OPENING OF TENDER	Date: 18/07/2022, Time: 16-30 Hrs. (online only through e-procurement platform at https://eprocurebhel.co.in/, participating bidders may witness the same online only) Applicable
vii	CURRENCY	INDIAN RUPEES (INR) Applicable
viii	EMD AMOUNT	Rs. 1,50,000 (Rupees One Lakh Fifty Thousand Only) Applicable
ix	COST OF TENDER	- Not Applicable
x	LAST DATE FOR SEEKING CLARIFICATION	Date: 15/07/2022 (UP TO 12:00 Hrs.) Applicable
xi	SCHEDULE OF Pre Bid Discussion (PBD)	Not Applicable (In case BHEL decides to conduct PBD, date, time & venue of PBD will be intimated suitably thru TCN). Not Applicable
xii	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)	Not Applicable Not Applicable
xiii	Latest updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL webpage (www.bhel.com) → Tender Notifications → View Corrigendums & CPP portal → Tender Notice & E-PROCUREMENT PORTAL https://eprocurebhel.co.in/ and not in the newspapers. Bidders to keep themselves updated with all such information. Shall be intimated to bidder

1. The offer shall be submitted as per the instructions of tender document. Only One set of tender document (**in original, downloaded from website**) signed by authorised company rep. of bidder and stamped on each page shall be submitted as detailed further, as given below. Bidders to note specifically that all pages of tender document, including these NIT pages etc. appearing in the website for this particular tender shall be submitted by them (after signing/stamping on each page) as a part of their offer. **Price shall not be mentioned by them anywhere in the techno-commercial portion of offer. Price shall be mentioned in the relevant price schedule only and to be submitted in e-procurement portal/platform in the form and manner mentioned in tender.**

For E-Procurement Assistance & Training, NIC PORTAL Helpdesk Contacts as per following: -

For any technical related queries please call at 24x7 Help Desk Number

0120-4001 002, 0120-4200 462, 0120-4001 005, 0120-6277 787

Email Support

Address: A) For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority

Technical - support-eproc@nic.in

For any difficulty in downloading the tender from internet website, they should contact this office (Manager, Purchase or DGM, Purchase Phone no. 033-23398222/8221). No alteration/changes by bidders is permitted in the tender/NIT appeared in the website.

2. Successful bidder shall have to submit additional set of tender/sign on tender document provided by BHEL, if so decided by BHEL.
3. This is an e-tender floated online through our E-Procurement Site <https://eprocurebhel.co.in>. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://eprocurebhel.co.in>. Offers are invited in two-parts only. No Hard copy bid or bids through email/ fax shall be accepted. Bids are invited in two parts & shall be submitted as described below:

OFFER DESCRIPTION	DOCUMENTS TO BE UPLOADED & MODALITY OF UPLOADING
TECHNICAL OFFER	1. Scanned copy of Covering letter of offer (To be attached in Attachment section) 2. Scanned copy of Entire tender documents signed & stamped in each page by authorized representative of the bidder except price bid (To be attached in Attachment section). 3. Scanned copy of Techno-Commercial Offer (To be attached in Attachment section) 4. Duly filled all annexures except price & unpriced format (To be attached in Attachment section). 5. Copy of records notes of Pre-Bid Conference, if applicable/ pre-bid MOM. (To be attached in Attachment section) 6. Copy of Tender change notice (TCN), if applicable (To be attached in Attachment section) 7. All supporting documents/ Annexures etc. as applicable (To be attached in Attachment section). 8. No deviation certificate in bidder's letterhead as per format given in Tender (To be attached in Attachment section).
PRE-QUALIFICATION PART	9. Pre-qualifying documents with all credentials as per tender. (To be attached in PQ Attachment section)
UNPRICED PRICE BID	10. Price schedule –Unpriced but mentioning only quoted / unquoted against each item as per tender.
PRICE BID	11. Duly filled in Price Schedule as per tender. Any other document uploaded in the price bid, apart from tendered Price schedule, shall not be taken into cognizance for evaluation of offer.

4. **EARNEST MONEY DEPOSIT (EMD)** of **Rs. 1,50,000 (Rupees One Lakh Fifty Thousand Only)**, in the form & manner prescribed in tender, shall be submitted by bidder as mentioned below, failing which the bidder's offer is liable for rejection.

4.1 Every tender must be accompanied by the prescribed amount of Earnest Money Deposit in any one of the following forms:

- a) **Cash deposit as permissible under the extant Income Tax Act** (Before tender opening) - The amount should be remitted by the party to the Cashier of Bharat Heavy Electricals Limited, PS-ER, Kolkata between 14.00 hours and 16.00 hours on working days and cash receipt issued by him shall be enclosed along with the tender.
- b) **Electronic Fund Transfer** credited in Bharat Heavy Electricals Limited, PS-ER's account (before tender opening). RTGS details of BHEL-PSER is available in tender.

- c) **Banker's Cheque/Pay Order/Demand Draft** payable at Kolkata duly pledged in favour of Bharat Heavy Electricals Limited, Kolkata (along with offer).
- d) **Any other mode as per latest guidelines issued by Govt. of India.**

In case total EMD amount is more than INR 20 LAKH, the amount in excess of INR 20 LAKH may be accepted in the form of Bank Guarantee from scheduled bank. The bank Guarantee in such cases shall be valid at least for six months.

- 4.2 Tenders received without Earnest Money in full in the manner prescribed above are liable to be rejected.
- 4.3 EMD given by all unsuccessful tenderers shall be refunded on acceptance of award/LOI/PO by successful tenderer. The EMD of the successful bidder shall be returned after submission of Security Deposit BG (SDBG).
- 4.4 EMD shall not carry any interest.
- 4.5 BHEL reserves the right of forfeiture of Earnest Money Deposit submitted by the tenderer if:-
EMD by the tenderer shall be forfeited as per tender documents if -
- 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.
 - The contractor fails to deposit the required Security Deposit or commence the work within the period as per LOI/contract.
 - The successful bidder/vendor refuses to honour the order after award of the same on him and/or withdraws his bid and/or unilaterally changes the offer and/or any of its items and conditions within the validity period.

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".

Scan copy of documents in support of submission of EMD to be uploaded along with techno-commercial offer in e-procurement portal/platform. In case of EMD submission through banker's cheque/pay order/demand draft, same to be submitted in sealed envelope (superscribing tender reference) to Head-Purchase/ Manager-Purchase, BHEL Bhawan, DJ-9/1, Sector-2, Karunamoyee, Salt Lake City, Kolkata-700091, West Bengal prior to latest due date of submission of offer.

SPECIAL NOTE:

- A) **Your offer & documents submitted with the offer shall be signed and stamped in each page by your authorized representative. No overwriting/correction in tender documents by bidders shall be allowed. However if correction is unavoidable, the same may be signed by authorized signatory.**
- B) **All documents/annexure submitted with the offer shall be properly annexed and placed in respective places of the offer as per enclosure list mentioned in the covering letter. BHEL shall not be responsible for any missing documents.**
5. No deviation with respect to tender clauses and no additional clauses/ suggestions/clarification in Techno-commercial bid/Price bid shall normally be considered by BHEL. Bidders are requested to positively comply with the same. Offers with deviation are liable for rejection.
6. BHEL reserves the right to accept or reject any or all offer without assigning any reasons thereof. BHEL also reserve the right to cancel the offer wholly or partly without assigning any reason thereof. BHEL also reserve the right to split/part award the job. Also BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).
7. Bidders are free to visit the site and study the prevailing site condition including law & order etc. before quoting (if applicable). They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions. No additional claim shall be entertained by BHEL in future, on account of non-acquaintance of site/machine conditions at the time of bidding.
8. For any clarification on the tender document, you may seek the same in writing or through e-procurement portal/platform as per specified format within the last date of seeking clarification as per tender. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay, and receipt of any query after due date shall not be entertained.
9. BHEL may decide holding Pre-bid Discussion [PBD] with all intending bidders. On such communication from BHEL, the bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Outcome of PBD (if any) shall also form part of tender.
10. In case of absence of any queries from bidder(s), their quoted price will be PRESUMED to be final and complete with reference to the tender documents (including Tender change notes (TCNs), clarifications, corrigendum issued by BHEL, if any). Bidders are requested to study the tender documents in detail and prepare their queries/clarifications accordingly. All such queries / clarifications shall be cleared/replied by BHEL. Such clarification letters, corrigendum and/or Tender change notes (TCNs), if issued by BHEL, shall form part of tender document.
11. In the event of any conflict between requirement of any clause of this specification/ documents /drawings /data sheets etc. or requirements of different codes/ standards specified/ contradictions between any two clauses of tender document, the same to be brought to the knowledge of BHEL by bidders in writing for clarification before due date of seeking clarification, otherwise, more stringent requirement as may be interpreted by BHEL shall prevail

- and shall be binding on you. Any typing error/missing pages/other clerical errors in the tender documents, noticed by you must be pointed out before submission of offer, or else, BHEL's interpretation shall prevail & binding on you.
12. Unless specifically mentioned otherwise, bidder's quoted price shall be deemed to be in compliance with tender including PBD.
13. Tender document containing above mentioned volumes shall be signed & stamped in all pages including this covering letter. Price bid shall be furnished in the specified format enclosed with the tender. Any additional copy, if required, may be taken by photocopying from the tender document given in the web.
14. **The Bidder has to satisfy the Pre-Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened, who will qualify for the subject job on the basis of pre-qualification evaluation & Techno-Commercial bids etc. BHEL reserves the right to reject the bidders with unsatisfactory past performance in the execution of a contract. BHEL's decision in this regard shall be final & binding.**
15. The bidder shall submit documents in support of possession of 'Pre-Qualifying Requirements' duly self-certified and stamped by the authorized signatory, indexed and properly linked in the format for PQR. In case BHEL requires any other documents/proofs, these shall be submitted immediately (if applicable).
16. **The bidder may have to produce original document for verification if so decided by BHEL.**
17. While BHEL reserves the right to open the price bid of the offers in camera, the date & time to open the tender opening shall be intimated to the bidders in case BHEL decides it to be 'Public opening' and in such a case, one authorized representative of the bidder shall be allowed to attend.
18. Validity of the offer shall be as per PART-B, CI - 17.
19. Bidders are required to submit their BEST price as per tender Price Schedule format in e-procurement portal/platform in the form & manner as mentioned in tender.
20. Price Bids shall be evaluated in the manner as prescribed in Price Schedule. However, Unit Rates shall also be furnished if applicable in the Price Schedule.
21. **Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.**
22. Taxes and duties shall be as per PART- C of the tender. Statutory variation of taxes and duties (plus or minus) in accordance with Govt. Notifications to the account of BHEL. Any imposition of new / additional Duty / Tax at the time of supply shall be borne by BHEL.
23. ***"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified bidders.***
Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."
24. Bidders are requested to note that the accepted / agreed tender terms (technical, commercial or on Reverse Auction) in their original offer cannot be altered / withdrawn by their own during the processing of tender.
25. Unsolicited discounts received after opening of techno commercial bid shall not be considered for evaluation. However, if the party who has submitted the unsolicited discount/rebate becomes the L-1 party, then the awarded price shall be after considering the discount.
26. **"The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com".**
- i. Integrity commitment, performance of the contract and punitive action thereof:
- a) Commitment by BHEL:
BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.
- b) Commitment by Bidder/ Supplier/ Contractor:
- b.i) The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
- b.ii) The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
- b.iii) The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/

reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage includes in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www.bhel.com and/ or under applicable legal provisions.

27. 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.

28. Suspension of Business dealings: BHEL reserves the right to take action against contractors who fail to perform or indulge in malpractices, by suspending business dealings with them as detailed in Annexure-IV.

29. "MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) if they submit along with the offer, attested copies of either Udyam Registration Certificate or EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or Udyog Aadhar Memorandum (UAM) & Acknowledgement or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure – V where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

Any Bidder falling under MSME category, shall furnish the following details & submit documentary evidence/Govt. Certificate etc. in support of the same along with their techno-commercial offer: -

Type under MSME	SC/ST owned	Others
Micro		
Small		
Medium		

Note: - If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSME category.

30. Indian suppliers, falling under the purview of Public procurement (preference to make in India) order 2017 by Govt. of India, vide order no. P-45021/2/2017-B.E.-II dated 15th June, 2017 & all subsequent clarifications can avail the intended benefits, as per provisions of the order subject to minimum local content shall be 50%, margin of Purchase preference shall be 20% & modality of preference to make in India shall be as per aforesaid order.

31. "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".

Duly filled & signed Annexure-III (Format for local content), as applicable, to be submitted by bidders along with their techno-commercial offer.

32. GeMAR and PTS Report ID: GEM/GARPTS/02052022/1VH0IR87LW6L, Date – 02/05/22

33. The GeM Seller ID shall be mandatorily submitted before placement of order / award of contract for goods and services by the successful bidder(s).

34. **ORDER OF PRECEDENCE:**

In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

- AMENDMENTS/CLARIFICATIONS/CORRIGENDA/ERRATA etc issued in respect of the tender documents by BHEL.
- NOTICE INVITING TENDER (NIT)
- PRICE SCHEDULE: PART- E
- TECHNICAL SPECIFICATION/SCOPE AND SPECIAL CONDITIONS OF CONTRACT (SCC)-PART-C
- GENERAL CONDITIONS OF CONTRACT (GCC)-PART-B
- FORMS AND PROCEDURES - PART- H

for BHARAT HEAVY ELECTRICALS LTD

Manager/ (PUR)

All the bidders are requested to note that all the errata / technical clarifications / corrigendum / extension etc. shall be published THROUGH E-PROCUREMENT PORTAL (<https://eprocurebhel.co.in>) and in website www.bhel.com & <http://eprocure.gov.in> . As such, all the bidders are requested to be in continuous touch with these websites.

Agency	Contact details	
BHEL, PSER, Kolkata	Address	BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR – EASTERN REGION 2ND FLOOR, BLOCK-DJ, PLOT- 9/1, SECTOR, SALT LAKE CITY, KOLKATA – 700 091
	Phone no.	033-23398222, 23398221, 23398226, 23211690
	FAX no.	033-23211960
	E-mail ID	abhijitd@bhel.in , a_sarkar@bhel.in , bsandipan@bhel.in
NIC E-PROCUREMENT PORTAL	<p>For E-Procurement Assistance & Training, NIC PORTAL Helpdesk Contacts as per following: - For any technical related queries please call at 24 x 7 Help Desk Number 0120-4001 002, 0120-4200 462, 0120-4001 005, 0120-6277 787</p> <p>Email Support Address: A) For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority Technical - support-eproc@nic.in</p>	

Enclosures:

- ANNEXURE-I: Pre qualifying Criteria.
- ANNEXURE-II : No Deviation Certificate
- ANNEXURE-III: Format for Self Certification regarding Local content (LC) for Product/ Services/ Works
- ANNEXURE-IV: CERTIFICATE (regarding bidder from a country which shares a land border with India)
- ANNEXURE-V: Certificate by Chartered Accountant
- ANNEXURE-VI: Format for seeking clarification
- ANNEXURE-VII: Suspension of business dealing with Suppliers/Contractors
- ANNEXURE-VIII: Declaration for Relation in BHEL
- PART – F: General Terms & conditions for Reverse Auction.
- Tender documents as per this NIT.

PRE-QUALIFICATION CRITERIA

JOB	SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SAFETY SURVEILLANCE SYSTEM THROUGH PTZ CAMERA AT BHEL NORTH KARANPURA SITE, TANDWA, JHARKHAND.
TENDER NO	PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022

Technical:

- The bidder should have **executed*** at least 02 (two) **similar jobs**** at any Government organisation/ Public Sector Undertaking/ Government Company/Limited Company/ Multi National Company in last 7 (seven) years ending on latest due date of submission of offer.

* the word “**executed**” means either the job has been completed or the above stated criteria has been achieved, even if the total contract has started earlier and / or is not completed / closed.

** the word “**similar jobs**” means supply and installation of at least 2 (two) nos. of (CCTV/ Surveillance/ Monitoring or equivalent) camera with outdoor IP PTZ Camera.

Bidder may comply the above by submitting copy of order & completion certificate/documentary evidence issued by the client/end user in support of above along with details of customer contact.

Financial:

- Bidder should have average annual turnover of minimum **Rs. 24.0 lakh** during three consecutive financial years 2018-19, 2019-20 and 2020-21 and should have positive net worth as on latest audited accounts as submitted for para 2 (c).
 - Bidder must have earned profit in any 1 (one) of the three consecutive financial years 2018-19, 2019-20 and 2020-21. Audited balance sheet and profit & loss account of the company for the above mentioned financial years need to be submitted in support of above.
 - in case audited balance sheet and profit & loss account has not been submitted for that three consecutive years indicated above, then the applicable financial audited statements submitted by the bidders against the requisite years, will be averaged for 3 (three) years.
 - if financial statements are not required to be audited statutorily, then instead of audited financial statement, financial statements are required to be certified by chartered accountant.
- Bidder should have valid PAN and valid GSTIN certificate. Relevant supporting documents shall be submitted by the bidder.

Note:

- The bidder who meets the above pre-qualification criterion can only participate in the tender.
- Bidders quoting in Indian Currency (INR) only shall be qualified.
- Consortium/ JV bidding is not allowed for this tender.
- If the bidder happens to be subsidiary of a parent company, then the credentials of its sister-concern (under the same business) and the parent company can also be considered for meeting the above PQC.
- Bidder must not be under bankruptcy code proceedings (IBC) by NCLT or under Liquidation / BIFR, which will render him ineligible for participation in this tender, and shall submit undertaking to this effect.

NO DEVIATION CERTIFICATE**(TO BE SUBMITTED IN BIDDER'S LETTERHEAD)**

To
 BHARAT HEAVY ELECTRICALS LIMITED,
 Power Sector - Eastern Region,
 Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
 Kolkata – 700 091

Sub	NO DEVIATION CERTIFICATE	
Job	SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM.	
Ref	1.0	TENDER NO - PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022
	2.0	Other references (if any).

Dear Sir,

With reference to above tender, this is to confirm you that we have gone through each and every terms and conditions mentioned in the enquiry (Terms and Conditions) and we offer our unqualified acceptance of the same. This is also to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc.

We also confirm that we have not changed/modified the tender documents as appeared in the website/newspapers and in case of observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT *and confirm our acceptance to **reverse auctioning process*** and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT.

It is also confirmed that the price has been quoted in the format received with the enquiry. We confirm that, we do not have any objections to splitting the quantity among the different bidders by BHEL and price shall remain firm till the completion supply of full ordered quantity.

Any deviation found subsequently at any time during execution of order shall be treated null and void.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorised representative of the contractor)

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 04TH JUNE, 2020
AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

Ref : 1) NIT/Tender Specification No: PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022,
2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| ... | |
| ... | |
| ... | |

Thanking you,
Yours faithfully,

(Signature, Date & Seal of Authorized Signatory of the Bidder)

** - Strike out whichever is not applicable.

Note:

- Bidders to note that above format Duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
- In case the bidder's quoted value is in excess of Rs.10 crores, the authorised signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies)
- In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017*(To be submitted in the bidder's letter head)*-----
To,*(Write Name & Address of Officer of BHEL inviting the Tender)*

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017**Ref:** 1) NIT/Tender Specification No: PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022,
2) All other pertinent issues till date

"I have read the tender clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1, 2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that _____ (specify the name of the organization here) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that we fulfill all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

Thanking you,
Yours faithfully,**(Signature, Date & Seal of Authorized Signatory of the Bidder)**

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.

Certificate by Chartered Accountant on letter head

This is to Certify that M/s (hereinafter referred to as 'company') having its registered office at is registered under MSMED Act 2006, (Entrepreneur Memorandum(Part-II) / UAM / Udyam Registration No..... dtd:....., Category: (Micro/Small).
(Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006:
Rs Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs Lacs
3. **For Enterprises (having EM-Part-II / UAM):** Investment in plant and machinery or equipment is Rs..... Lacs and turnover is Rs.Lacs {as notified in MSME notification no. S.O. 2119 (E) dated 26-06-2020}.
4. **For Enterprises (Udyam, registered under Udyam Registration Portal):** Investment in plant and machinery or equipment is Rs.....Lacs and turnover is Rs.....Lacs {as notified in MSME notification no. S.O. 2119 (E) dated 26-06-2020}.

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro/Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category {Micro/Small} (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number –

Seal of Chartered Accountant

<p>पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax: (033) 23211960 फ़ोन/Phone: बोर्ड/EPABX: 23398220</p>	<p>Page - 11 of 61</p>
---	------------------------

FORMAT FOR SEEKING CLARIFICATION

Job	SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM.			
Tender No	PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022			
Sl. no	Reference clause of tender document	Existing provision	Bidder's query	BHEL's clarification

SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS

1.0	Suspension of Business dealings with Suppliers/ Contractors
1.1	BHEL reserves the right to take action against Suppliers/ Contractors who fail to perform or indulge in malpractices, by suspending business dealings with them.
1.2	<p>Suspension of business dealings with Suppliers/ Contractors could be in the form of following: --</p> <p>a) Hold within the unit for specific item(s)/ material category(ies)/ type of work(s) for one year.</p> <p>b) Hold within the unit for all item(s)/ material category(ies)/ type of work(s) for two years</p> <p>c) Banning across BHEL for all items/ material category(ies)/ type of work(s) for three years.</p> <p>The Supplier may be either put on hold or banned, as detailed hereinafter on the basis of one or more of the category wise reasons as enumerated hereunder.</p>
1.3	<p>Hold within the unit for a specific item(s)/ material category(ies)/ type of work(s) shall be imposed in the following cases, if</p> <p>i) In the last three consecutive supplies of a specific material category, average quality rating, as provided in the supplier performance rating (SPR) as per SEARP, falls below 80% of the quality weightage. This is irrespective of supplies against PO(s) having single/ multiple delivery schedules.</p> <p>Note: Not applicable in cases for erection works of Power Sector Regions, where separate guidelines for evaluation of capacity of bidders is being followed.</p> <p>ii) Two consecutive delays, for reasons of delay attributed to the Supplier, in execution of the contracts where delay occurred is such that</p> <p>a) prescribed maximum LD time limits of the contracts is exceeded or</p> <p>b) delay period has equaled/ exceeded half the original delivery period specified in the contracts whichever among the above is earlier.</p> <p>iii)</p> <p>a) Overall SPR (Supplier Performance Rating) in that particular Unit in line with SEARP falls below 60% of the specific material category.</p> <p>b) Bids of contractors (in PS-MSX portal) shall not be considered (if average score of last six months falls 60% or below as per guidelines for evaluation of capacity of bidders formula).</p> <p>Note: – for (b), No specific period of hold shall be applicable.</p> <p>iv) Supplier works are under strike/ lockout for a period of more than three months.</p> <p>Hold within the unit for all item(s)/material category(ies)/ type of work(s) shall be put in the following cases, if</p> <p>i) Supplier tampers with tendering procedure affecting ordering process.</p> <p>ii) Supplier has misused BHEL documents/ drawings/ technical information or has breached the confidentiality agreement with BHEL.</p> <p>iii) after placement of order, Supplier fails to execute the contract.</p> <p>iv) within warranty period as per contract, Supplier continues to supply low/ less/ non-performing equipment/ services, repetitive failures, remains non-responsive.</p> <p>v) Wherever risk purchase clause (amounting to more than 5% of contract value) has been invoked.</p> <p>vi) After price bid opening but before placement of order, Supplier withdraws his offer or varies it in any manner within the validity period.</p>
1.4	Banning across BHEL shall be imposed in following cases, if
1.4.1	<p>i) Supplier is found to be responsible for submitting fake/ false/ forged documents, certificates, or information or misrepresentation/ wilful suppression of facts, or has resorted to unethical, illegal means or has forged BHEL documents, certificates etc. for securing business, meeting PQR or for enlistment in BHEL or with customers other than BHEL.</p> <p>ii) In spite of warnings, the Supplier persistently violates or circumvents the provisions of labour laws/ regulations/ rules or other statutory requirements.</p> <p>iii) Supplier is found to be involved in cartel formation or in any other act so as to influence the bidding process or influence the price.</p> <p>iv) The Supplier has indulged in malpractices or misconduct such as bribery, corruption and fraud, pilferage, coercion etc.</p> <p>v) The Supplier is found guilty by any court of law for criminal activity/ offences involving moral turpitude in relation to business dealings.</p> <p>vi) Supplier is found to have obtained any internal information/ documentation of BHEL by unauthorized means.</p> <p>vii) The foreign Principals along with the representing Agent shall be banned together if information submitted by them about their precise relationship, commission/ remuneration etc. payable/ receivable and other particulars as asked by BHEL, as per the extant guidelines regarding dealing with Agents of Foreign Suppliers is found false/ incorrect, at any stage.</p> <p>viii) Supplier has substituted, damaged, failed to return, or unauthorizedly disposed off free issue materials/ tools etc. of BHEL.</p>
1.4.2	A Supplier can also be banned with the approval of Director (E, R&D) provided a direction to this effect has been received from the administrative ministry of the Government.

Note: Above shall be applicable along with Guidelines for “Suspension of Business dealings with Suppliers/ Contractors” available in BHEL website <http://www.bhel.com>. These shall form part of tender documents.

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Declaration for relation in BHEL**

Ref : 1) NIT/Tender Specification No: **PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41)** **DATE: 07/07/2022,**

I/We hereby submit the following information pertaining to relation/relatives of Proprietor/Partner(s)/Director(s) employed in BHEL.

Tick (✓) any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

(i)

(ii)

Signature of the Authorized Signatory

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

=====

UNDERTAKING

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: NIT/Tender Specification No: PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022

I/We, _____ declare that, I/We am/are not under insolvency resolution process or liquidation / BIFR or Bankruptcy Code Proceedings (IBC) as on date, by NCLT or any adjudicating authority/authorities, which will render us ineligible for participation in this tender.

**Sign. of the Authorised Signatory
(With Name, Designation and Company seal)**

Place:

Date:

DECLARATION

Date: -----

Job: "SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM".

E-Tender No.: PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022

To: -----
Address: BHEL, -----

Email: -----

Sub: **Details of related firms and their area of activities**

Dear Sir/Madam,

Please find below details of firms owned by our family members that are doing business/registered for same item with BHEL, ----- (NA, if not applicable)

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
...		

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(-----)

From: M/s -----

Supplier Code: -----

Address: -----

PART - F**GENERAL TERMS & CONDITIONS OF REVERSE AUCTION**

Against this enquiry for the subject item/ system with detailed scope of supply/service as per tender specifications, BHEL shall be resorting to "REVERSE AUCTION PROCEDURE" i.e. ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. *Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA.*
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained for participation in the reverse auction.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax /e-mail the Compliance form (annexure III) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" which is inclusive of all cost elements in line with terms & conditions of the tender for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VI) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. *Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the "Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.*
12. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL and the results of the RA scrapped/ aborted.
13. *Reverse Auction will be conducted if two or more bidders are techno-commercially qualified. In case of two or three qualified bidders, there shall be no elimination of H1 bidder (whose quote is highest in sealed envelope price bid). In case of four qualified bidders, the H1 bidder shall be eliminated whereas in case of five qualified bidders, H1 & H2 bidders shall be eliminated. However, in case of six or more qualified bidders are available, RA would be conducted amongst first 50% of the bidders arranged in the order of prices from lowest to highest. Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of qualified bidders is odd (e.g. if 7 bids are qualified, then RA will be conducted amongst lowest four bidders). However, there will be no elimination of qualified bidders who are MSE or qualifying under PPP-MII, Order 2017, irrespective of the number of bidders qualifying techno-commercially.*

In case of multiple H1 bidders, all H1 bidders (excluding MSEs and bidders qualifying under PPP-MII, Order 2017) shall be removed provided minimum two bidders remain in fray, else no H1 removal.

PART – B: GENERAL CONDITIONS OF CONTRACT (GCC)

SL. NO.	BHEL STANDARD TERMS	Bidder's confirmation	Deviation
1.	<p>Our requirement is for CAPITAL use and will be used at 5 Sites (NTPC Barh, NTPC BRBCL Nabinagar, NTPC NPGCL Nabinagar, NTPC Kahalgaon and NTPC Bongaigaon site).</p> <p>Techno-commercial & Pre-Q bids shall be opened first & afterwards price bid shall be opened for qualified bidder(s), who have qualified in Techno-commercial & Pre-Q bids.</p> <p>Tenders will be received up to 14.00 Hours on the said due date.</p> <p><u>If the vendor submits offer i.e. Technical & Price bid together in single attachment, the offer shall be liable for rejection.</u></p> <p><u>Price should be submitted as per tender format only & uploaded in the price section.</u></p> <p>Note: In order to maintain sanctity of the tender system, it is advised that one Agent cannot represent two suppliers or quote on their behalf in a particular tender.</p> <p>In the tender, either one agent on behalf of the principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for same item/product.</p>		
2.	If any vendor sought to quote through their agents "They have to inform to BHEL in advance, before opening date. Otherwise the offer will be treated as Unsolicited Offer and same will not be opened".		
3.	<p>BHEL keeps its right to reject / load any offer which is having deviations to BHEL Specifications, Standard Terms & Conditions. All the bidders shall submit their offers only by filling the original BHEL tender documents. No other offer will be entertained.</p> <p>In case of Technical-Cum-Commercial bid, copy of the price bid has to be used to indicate commercial terms without price.</p>		
4.	The equipment offered shall be strictly conforming to the specification and for complete unit.		
5.	No offer for individual accessories or part machinery will be accepted.		
6.	<p><u>PAYMENT TERMS:</u></p> <p>AS PER PART-C of tender.</p> <p>No advance shall be paid. Payment shall be paid in INR only.</p> <p>Payment shall be through RTGS. Successful bidder shall have to submit the requisite details in RTGS format.</p>		
7.	<u>WARRANTY/GUARANTEE:</u> AS PER PART-C of tender.		
8.	<p><u>DELIVERY TERMS:</u> AS PER PART-C of tender.</p> <p><u>Offer with delivery period beyond tendered delivery schedule shall be liable for rejection.</u></p> <p>However, in case due to any reasons if the same is accepted by BHEL, the same shall be loaded for the delayed delivery period (in this case after <u>tendered delivery period</u>) & percentage of loading shall be as per clause no 22 of GCC (LD clause).</p>		
9.	<p><u>DISCOUNTS:</u></p> <p>Discounts offered by the vendor in price shall not be entertained by BHEL. The vendor should factor in his discount in the price offer only. In spite of the same, if a discount is offered by the bidder, the same shall not be considered for evaluation of the offer, but purchase order shall be issued on bidder's final discounted price.</p>		
10.	<u>LIQUIDATED DAMAGE/PENALTY CLAUSE:</u> AS PER PART-C of tender.		
11.	<p><u>Security Deposit (SD) & Performance Bank Guarantee (PBG)</u></p> <p>a. SD BG: 10% of the total order value to be submitted within 30 days of placement of LOI and valid until 30 days after the date of Installation and commissioning certificate for the last site which will be issued on completion of successful Installation and commissioning of all the</p>		

	<p>equipment as per order. (in line with cl no. 3.3 of guidelines for Capital Items (CIG) referred above). However, SDBG may be converted to PBG in full after the date of Installation and commissioning certificate for the first site.</p> <p>b. PERFORMANCE BANK GUARANTEE (PBG): 10% of the total order value valid for 30 days beyond the warranty period. However, this PBG clause shall be applicable in case bidder opines to obtain last 20% of Supply value plus 100% of the Installation & Commissioning charges as per Payment terms.</p> <p>SDBG may be converted into PBG. If PBG is submitted/available for total order value for all sites, the PBG value can be proportionately reduced after completion of site-wise Warranty/ Guarantee Period plus 30 days. However, PBG for the last site will be released only after completion of all contractual obligations or guarantee/warranty period plus 30 days, whichever is later.</p> <p>Separate Site-wise PBG also may be submitted of requisite value. In that case, SDBG value can be proportionately reduced after availability of site-wise PBG and full SDBG may be released after availability of all site-wise PBGs.</p>		
12.	<p>The sealed tenders super scribing tender number and due date should be addressed to: Manager/Purchase, Bharat Heavy Electricals Limited, PSER, BHEL BHAWAN, DJ-9/1, SALT LAKE, SECTOR-II, KOLKATA - 700 091, India.</p>	Not Applicable	
13.	<p>INSPECTION: Details shall be as per PART-C of tender. BHEL will have the option to inspect with conducting of Load/Overload Test etc. the equipment at supplier's works before delivery. The final inspection / performance checking will however be carried out at our site. Bidder must submit quality plan within one month from the date of LOI, to BHEL for its approval.</p>		
14.	<p>CONSIGNEE DETAILS OF THE EQUIPMENT :- AS PER PART-C of tender. All documents / correspondences must bear the Tender no. / Purchase Order No. & Date.</p>		
15.	<p>The manufacturing progress will have to be furnished to us periodically in the form and manner required by us.</p>		
16.	<p>Supplier must submit with their offer list of customers (with their full address and their purchase reference number) to whom they have supplied similar machine in the past five years. The year of supply should also be indicated.</p>		
17.	<p>The quotation should be valid at least for a period of <u>NINETY (90) DAYS</u> from the tender due date of submission (extended, if any). Price Variation Clause will not be entertained.</p>		
18.	<p>FORCE MAJEURE : The vendor shall be subject to force majeure clause defined as under : This force majeure is herein defined as any cause which is beyond the control of the tenderer which they would not have foreseen or with a reasonable amount of diligence could not have foreseen and which subsequently affect the performance of the contract such as SRCC (strike riot and civil commotion), earthquake, flood, acts of god, acts of any government, domestic or foreign including but not limited to war. The tenderer shall not be liable for delay in performing his obligation resulting from any force majeure clause as referred to and/or defined above. The date of completion will be subject to hereinafter provided be extended by a reasonable time even though such cause may occur after tenderer's performance of his obligation has been delayed for other causes.</p>		

19.	ARBITRATION & CONCILIATION		
19.1	ARBITRATION :		
19.1.1	<p>Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided in Clause 19.2 herein below or otherwise) 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 (hereinafter referred to as the 'Dispute'), then, either Party may, commence arbitration in respect of such Dispute by issuance of a notice in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice'). The Notice shall contain the particulars of all claims to be referred to arbitration in sufficient detail and shall also indicate the monetary amount of such claim. The arbitration shall be conducted by a sole arbitrator to be appointed by the Head of the BHEL Power Sector Region issuing the Contract within 60 days of receipt of the complete Notice. The language of arbitration shall be English.</p> <p>The Arbitrator shall pass a reasoned award.</p> <p>Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder as in force from time to time shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Kolkata (the place from where the contract is Issued). The Contract shall be governed by and be construed as per provisions of the laws of India. Subject to this provision 19.1.1 regarding ARBITRATION, the principal civil court exercising ordinary civil jurisdiction over the area where the seat of arbitration is located shall have exclusive jurisdiction over any DISPUTE to the exclusion of any other court.</p>		
19.1.2	<p>In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:</p> <p>In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for Resolution of CPSEs Disputes) as mentioned in DPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018 as amended from time to time.</p>		
19.1.3	The cost of arbitration shall initially be borne equally by the Parties subject to the final allocation thereof as per the award/order passed by the Arbitrator.		
19.1.4	Notwithstanding the existence of 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 unless the dispute inter-alia relates to cancellation, termination or short-closure of the Contract by BHEL.		
19.2	<p>CONCILIATION:</p> <p>If at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation effect, interpretation or breach of the agreement, contract), which the Parties are unable to settle mutually, arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee (IEC) to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. No serving or a retired employee of BHEL/Administrative Ministry of BHEL shall be included in the BHEL Panel of Conciliators. 2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel 		

	<p>of Conciliators.</p> <p>The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Procedure 2.3 to this GCC (as available in www.bhel.com). The Procedure 2.3 together with its Formats (as available in www.bhel.com) will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this GCC.</p> <p>The Contractor hereby agrees that BHEL may make any amendments or modifications to the provisions stipulated in the Procedure 2.3 (as available in www.bhel.com) to this GCC from time to time and confirms that it shall be bound by such amended or modified provisions of the Procedure 2.3 (as available in www.bhel.com) with effect from the date as intimated by BHEL to it.</p>		
19.3	<p><u>No Interest payable to Contractor</u></p> <p>Notwithstanding anything to the contrary contained in any other document comprising in the Contract, no interest shall be payable by BHEL to Contractor on any moneys or balances including but not limited to the Security Deposit, EMD, Retention Money, RA Bills or the Final Bill, or any amount withheld and/or appropriated by BHEL etc., which becomes or as the case may be, is adjudged to be due from BHEL to Contractor whether under the Contract or otherwise.</p>		
20.	<p><u>JURISDICTION :</u></p> <p>All disputes or differences arising under out of or in connection with the purchase order shall be subject to the exclusive jurisdiction of court at Kolkata.</p>		
21.	<p><u>RIGHTS OF BHEL:</u></p> <p>(A) To withdraw any portion of work/supply and/or to restrict / alter the quantum of work/supply as indicated in the contract during the progress of work/supply and get it done through other agency and/or to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons / BHEL's obligation to its customer.</p> <p>(B) To terminate the contract or withdraw portion of work/supply and get it done through other agency, at the risk and cost of the contractor after due notice of a period of 14 days' by BHEL in any of the following cases:</p> <ol style="list-style-type: none"> Contractor/Supplier's poor progress of the work vis-à-vis execution timeline as stipulated in the Contract, backlog attributable to contractor/supplier including unexecuted portion of work/supply does not appear to be executable within balance available (#) period considering its performance of execution. Withdrawal from or abandonment of the work by contractor before completion of the work as per contract. Non-completion of work/Non-supply by the Contractor / Supplier within scheduled completion/delivery period as per Contract or as extended from time to time, for the reasons attributable to the contractor/supplier. Termination of Contract on account of any other reason (s) attributable to Contractor/Supplier. Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of contract or part thereof by BHEL. Non-compliance to any contractual condition or any other default attributable to Contractor/ Supplier. <p>(#) In-case inputs from BHEL/Customer are likely to be delayed or are actually delayed, this delay may also be taken into account while considering balance period available for execution of Contract.</p> <p>(C) <u>Risk & Cost Amount against Balance Work:</u></p> <p>Risk & Cost amount against balance work shall be calculated as follows: $\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$ Where, A= Value of Balance scope of Work/Supply (*) as per rates of new contract B= Value of Balance scope of Work/Supply (*) as per rates of old contract being paid to the contractor / supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any. H = Overhead Factor to be taken as 5 In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero). (*) Balance scope of work / supply (in case of termination of contract): Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work /</p>		

	<p>Supply for calculating risk & cost amount. Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.</p> <p>Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities.</p> <p>Substitute / extra items whose rates have already been approved would form part of contract quantities for this purpose. Substitute / extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions.</p> <p>However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose.</p> <p>NOTE: In-case portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work / supply' for calculating Risk & Cost amount.</p> <p>(D) LD against delay in executed work/ supply in case of Termination of Contract : LD against delay in executed work / supply shall calculated in line with LD clause as per GCC/SCC/TCC/Special note/any other annexure of tender document (in compliance with order of precedence), for the delay attributable to contractor / supplier. For this purpose, contract value shall be taken as Executed Value of work / supply for the purpose of limiting the maximum LD value.</p> <p>Method for calculation of "LD against delay in executed work / supply" is given below.</p> <p>i) Let the time period from scheduled date of start of work till termination of contract excluding the period of Hold (if any) not attributable to contractor / supplier = T1</p> <p>ii) Let the value of executed work / supply till the time of termination of contract= X</p> <p>iii) Let the Total Executable Value of work / supply for which inputs/fronts were made available to contractor / supplier and were planned for execution till termination of contract = Y</p> <p>iv) Delay in executed work / supply attributable to contractor/supplier i.e. $T2 = [1 - (X/Y)] \times T1$</p> <p>v) LD shall be calculated in line with LD clause [as per GCC/SCC/TCC/Special note/any other annexure of tender document (in compliance with order of precedence)] of the Contract for the delay attributable to contractor / supplier taking "X" as Contract Value and "T2" as period of delay attributable to contractor/ supplier.</p> <p>(E) Recoveries arising out of Risk & Cost and LD or any other recoveries due from Contractor.</p> <p>Following sequence shall be applicable for recoveries from contractor / supplier on whom risk & cost has been invoked, after informing the contractor / supplier of the total proposed recovery :</p> <p>a) Dues available in the form of Bills payable to contractor / supplier, SD, BGs against the same contract.</p> <p>b) Demand notice for deposit of balance recovery amount shall be sent to contractor/ supplier, if funds are insufficient to effect complete recovery against dues indicated in (a) above.</p> <p>c) If contractor / supplier fails to deposit the balance amount to be recovered within the period as prescribed in demand notice, following action shall be taken for balance recovery:</p> <p>i) Dues payable to contractor / supplier against other contracts in the same Region / Unit shall be considered for recovery.</p> <p>ii) If recovery cannot be made out of dues payable to the contractor / supplier as above, balance amount to be recovered, shall be informed to other Regions/Units for making recovery from the Unpaid Bills/Running Bills/SD/BGs/Final Bills of contractor / supplier.</p> <p>iii) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against contractor / supplier.</p>		
22.	LOADING FACTORS FOR DEVIATION TO BHEL STANDARD TERMS & CONDITIONS		
i)	Bank Guarantee: Non submission of 10% BG (if applicable) will attract 10% loading on the offers.		
ii)	Penalty Clause: Non acceptance of penalty clause will attract maximum 10% loading on the offer and accordingly proportionate percentage will be loaded for accepting less percentage of penalty clause. Ex: If the supplier has accepted for maximum 5% penalty clause, then balance 5% will be loaded.		
पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax: (033) 23211960 फोन/Phone: बोर्ड/EPABX: 23398220			Page - 22 of 61

iii)	For all other Terms & Conditions, if the offer is not confirming to the same, BHEL at its discretion shall load the same and the loading pattern shall be intimated to the bidders before price bid opening. However BHEL reserves the right to cancel a bid in case of non-acceptance of any terms and conditions finally arrived before price bid opening.		
23	Note: The offers not complying the above Terms & Conditions will not be accepted.		

Note:

01. In case of any conflict / inconsistency in any clause of the tender or between various sections of the tender, bidder should bring the same in writing to BHEL for clarification before submission of the bid, failing which the most stringent interpretation of the clause in favour of BHEL shall be adopted and the same shall be binding to the bidder.
02. Any deviation sought by the bidder should be indicated in the techno-commercial offer.
03. **Bidder should write “*accepted*” in the column “Bidder’s confirmation” for each clause, if the conditions are agreeable or else should write the deviations sought in “Bidder’s Deviation(if any)” column. Offers with deviation are liable for rejection.**
04. If any clause left blank, shall be presumed that the clause is accepted by the bidder.

SIGNATURE OF THE BIDDER WITH SEAL AND DATE

PART-C: TECHNICAL SCOPE AND SPECIAL TERMS AND CONDITIONS**Scope:**

Supply, Installation, Commissioning & Maintenance of Surveillance Systems through IP PTZ (Pan-Tilt-Zoom) CCTV camera at 5 project sites of BHEL PSER at Bihar and Assam as detailed below; site-wise BOM mentioned subsequently.

Table-A: Consignee

Sl.	Project Site	Consignee Address	Local Contact
1	NTPC Barh	Barh Site Office, Ganga Bihar, NTPC Transit Camp, P.O. Barh, Patna Bihar-803213	VIVEK SINHA 9471005290 vivek.sinha@bhel.in
2	NTPC BRBCL Nabinagar	BHEL Site Office, 4X250 MW Nabinagar Project BRBCL P.O. Nabinagar Dehri-onsone, Dist. Aurangabad, Bihar - 824 303	ANKIT AGARWAL 8102344199 ankit.agrawal@bhel.in
4	NTPC NPGCL Nabinagar	BHEL Site Office, 3X660 MW Nabinagar Project NPGCL Shivanpur, P.O.-Ankhora, Dist.- Aurangabad, Bihar, PIN: 824303	RAVI RANJAN PRABHAT 7763805525 ravi_dbg@bhel.in
3	NTPC Kahalgaon	BHEL Site Office, BHEL-ESP (R&M) Stage-1 (4X210 MW), Old BMD Office-NTPC, 1st Floor, Near Stage-1 Chimney, NTPC-Kahalgaon, Bhagalpur, Bihar, PIN- 813214	RANJAN KUMAR SINGH 9470591708 rk.singh@bhel.in
5	NTPC Bongaigaon	BHEL Site Office, 3X250 MW NTPC-Bongaigaon TPP, P.O. Salakati, Dist. Kokrajhar (BTAD) , Assam- 783369	VIKASH KUMAR 8651039400 vikashvkumar@bhel.in

A. Background:

The proposed sites are BHEL erection commissioning project sites. Heavy crane and vehicle movement takes place all the time throughout the sites. Time to time customer may change site plan etc. Bidders are required to visit project sites before quoting their offer and the successful bidder (vendor) is required to submit an implementation plan after awarding in discussion with concerned BHEL official. The CCTV system should have implemented to cover maximum project area, specially where the erection commissioning activity is going on or going to start and also to be accessible for troubleshooting as well.

The surveillance system will be used for the following:

1. Areas which are difficult to approach such as work at height, work at far-flung areas can be monitored easily without physically going there.
2. Management will be able to access remotely the CCTV system for real time progress monitoring.
3. Can monitor whether various activities are being carried out as per Standard Operating Procedure.
4. Can greatly help in the investigation of accident / theft / unorganized work progress / malpractice etc. One can review the recorded footage to check sequence of events, presence of men & materials that led to the incident.
5. Footage may use in several purpose (evidence for Insurance claims / Trainings etc.)
6. Close monitoring of behavior based safety issues of focused work groups can be made, which are otherwise not possible in the field.
7. Traffic / Road safety: speed of moving construction/ passenger vehicles within plant premises can be monitored easily.
8. Helps in monitoring and restricting movement of unauthorized persons within the site premises and work areas.

Table-B: Bill of Material (BOM)

BOM for 5 Project Sites of BHEL PSER							
			Locations				
SL.	ITEM DESCRIPTION	UNIT	Barh	BRBCL	NPGCL	Kahalg aon	Bongai gaon
A	SUPPLY OF ITEMS FOR SURVEILLANCE SYSTEM						
1	IP outdoor PTZ camera with mount bracket, power supply unit and mounting kit	Nos	5	2	5	3	2
2	Surveillance class common micro SD 128 GB	Nos	5	2	5	3	2
3	Network Video Recorder 16 channel with 4X6TB SATA surveillance class HDD	Nos	1	1	1	1	1

4(a)	Wireless bridge consisting of wireless base station and wireless CPEs operating on RF	Nos	2	0	1	2	1
4(b)	Wireless CPE operating on RF - client station	Nos	5	0	5	3	2
5	8 port Gigabit switch	Nos	5	2	5	3	2
6	32 inches surveillance monitor	Nos	1	1	1	1	1
7	9U Rack - indoor (NVR section)	Nos	1	1	1	1	1
8	Outdoor weather proof box (for camera locations) (6U approx.)	Nos	5	2	4	3	2
9(a)	1 kVA line interactive / offline UPS	Nos	1	1	1	1	1
9(b)	0.6 kVA line interactive / offline UPS	Nos	5	2	4	3	2
10	CAT5 / CAT5e STP cable	Box	3	1	3	2	2
11	Optical fibre cable	Mtr.	3000	2000	0	0	0
12	fibre optic patch cord	Nos	2	6	0	0	0
13	LIU for rack 12 port fully loaded with SCSM adapter / pigtail	Nos	7	4	0	0	0
14	SFP Module SM	Nos	2	4	0	0	0
15	CAT 6 UTP patch cord	Nos	10	4	10	6	6
16	CAT 6 STP RJ45 connectors	Nos	30	12	30	18	18
17	HDPE pipe (Local make)	Mtr.	300	100	0	0	0
18	Casing / Conduit (Local make)	Mtr.	500	300	600	300	300
19	Safety Accessories for road and overhead works (Local make)	Lot	1	1	1	1	1
20	1.5 sq. mm 3 core power cable	Mtr.	150	100	150	100	100
21	GI pipe - for road crossing	Mtr.	20	10	0	0	0
B	INSTALLATION, COMMISSIONING, TESTING, STABILIZATION, DEMONSTRATION, TRAINING OF SURVEILLANCE SYSTEM						
1	Laying of CAT 6 UTP cable (through casing / conduit / HDPE)	Mtr.	300	100	900	600	600
2	Laying of Optical Fiber with out of casing /conduit	Mtr.	2500	1700	0	0	0
2	Laying of Optical Fiber (through casing / conduit / HDPE)	Mtr.	500	300	0	0	0
3	Termination of OFC in LIU and OFC Splicing	Lot	1	1	0	0	0
4	One time Installation, commissioning, testing, stabilization, demonstration and training etc. charges for complete system as per scope	Lot	1	1	1	1	1
C	MAINTENANCE OF SURVEILLANCE SYSTEM (AMC)						
1	Labour charge (which will be paid quarterly) for maintenance of the setup as per scope (Referred as Maintenance Period)	Qtr.	8	8	8	8	8
D	OPTIONAL						
1	30 Mtr self-supported mast or guided mast	Nos	2	0	1	0	0
2	Lump sum price for shifting of camera location within site – excluding of any material.	Lot	1	1	1	1	1
3	Lump sum price for shifting of camera location across site – excluding of any material.	Lot	1	1	1	1	1

Note:

- (1) Make & Specification of the above items should be as per ANNEXURE:TS - Technical Specifications.
- (2) Transit Insurance is in the Scope of vendor.
- (3) Loading/Unloading of all materials at site is in the scope of vendor.
- (4) Quantities mentioned under Sl. No. A-10 to A-21 and B-1 to B-4 of Table-B may vary (Increase or Decrease) during actual execution stage due to changes in layouts/ dimensions etc. and they will be paid on the basis of actual execution. Vendor has to carry out detailed survey (after awarding) before implementation in consultation with BHEL concerned and supply accordingly. However, for evaluation purpose above BOM and its quantity will be considered.
- (5) Optional item may or may not be ordered depending on the actual situation at site during execution, but vendor have to quote for the same mandatorily or else the bid may not be considered for further processing.
- (6) Bidder have to quote the rates for the optional items, but the rates will not be considered for evaluation.
- (7) Quantity may vary (increase / decrease) depending on the actual situation at site during execution or customer obligation or any other unforeseen circumstances (equivalent to +/- 30% of total order value). For any increase / decrease in quantity during execution, the item rates shall be firm as per order.
- (8) All other small accessories / items etc. required for CCTV installation shall be included in the (B.4) One Time

Installation, commissioning charges of **Table-B**. BHEL is not liable to provide any item towards installation commissioning of CCTV system. Bidder has to make all arrangements at their own cost.

- (9) As per site actual situation, the interconnectivity mechanism may change (may alter from F/O to RF & vice-versa) as a result respective BOQ quantity may also change depending on the same. However, the main item - camera quantity shall remain same. As per site situation site may insist for phase wise installation however stagger delivery is not envisaged.

B. Completion Schedule (site-wise):

- Supply Schedule (Delivery and Inspection):** Within Five (5) Weeks from the date of delivery instruction from the authorized official of respective sites.
- Installation and Commissioning:** Within Two (2) Weeks from the date of installation service instruction from the authorized official of respective sites.

These instructions shall be given after placement of Purchase Order to the vendor as supply and service at site requires customer concurrence which shall be arranged by concerned site officials. The above Completion Schedule (site-wise) has to be completed in line with BOM mentioned in Table-B above for respective sites. Post-delivery inspection of materials would be carried out by BHEL to ensure functional completeness of supplied items. Materials found defective at the time of delivery should be replaced free of cost by vendor within 10 days of date of intimation by BHEL officials of respective sites.

C. Warranty period (Site-wise):

Two-year inbuilt warranty for the total system for each site to be provided by vendor from the date of installation & Commissioning as per certification by concerned BHEL officials of respective site. OEM warranty for major active components are as per specification.

During the Warranty period the Vendor shall provide breakdown maintenance for the whole set up free of cost (exclusive of physical damage).

D. Newness Certificate:

All the items supplied as per BOM under the scope of this tender, should be NEW and confirming to the contract technical specifications.

The newness certificate should be furnished (as indicated against the items in Bill of Material) containing the serial number or identification number of the item along with the mention of month and year of manufacturing of the items. OEM O&M manuals (as applicable) and drawings wherever applicable, have to be provided by the vendor along with the supplied materials as a part of handover.

After Installation of the whole set up the vendor has to submit proper installation report which has to be duly signed by vendor's service engineer and certified by BHEL personnel of respective site.

E. Liquidated Damage / Penalty (Site-wise):

Subject to force majeure, If vendor fails to complete the job as per aforesaid Supply and Installation & Commissioning schedule, BHEL shall have the right to recover as penalty as below. Penalty on delay in supply and/or Installation & commissioning will be applicable to the delays attributed to vendor. Penalty will be considered separately for "Supply" and "Installation & Commissioning": -

- The rate of penalty for delayed Supply for a site shall be @0.5% per week of delay of total site-wise order value (Supply + Installation & Commissioning) in Supply subject to maximum of 10% of total site-wise order value (Supply + Installation & Commissioning) excluding GST & BOCW Cess.
- The rate of penalty for delayed Installation & Commissioning shall be @0.5% per week of delay of total site-wise order value (Supply + Installation & Commissioning) in commissioning subject to maximum of 10% of total site-wise order value (Supply + Installation & Commissioning) excluding GST & BOCW Cess.
- Maximum penalty for delay in Supply and Installation & Commissioning together shall be limited to 15% of total site-wise order value (Supply + Installation & Commissioning) excluding GST & BOCW Cess as applicable.

Partial supply shall be considered as delay in supply.

In case of LD recovery, the applicable GST shall also be recovered from vendor.

F. Quarterly Maintenance Scope:

During the entire warranty period of 2 years, vendor has to extend support towards maintenance / preventive maintenance of the entire setup of the surveillance system as supplied and installed by the vendor as per the scope of the tender. For this support vendor will be paid quarterly maintenance charges at end of each quarter as per contract.

G. Service Level Agreement (SLA) & Downtime (site-wise):

- Vendor has to maintain SLA of 98% uptime
- Downtime penalty is applicable for not fulfilling the SLA
- Penalty shall be calculated site-wise (value applicable for the site)
- Any breakdown call from site needs to be attended within 8 hours of reporting. If the call is not resolved within 8 hours, then the downtime shall be accounted as per the downtime clause.
- The vendor shall have to ensure all the CCTV system is in working condition for a minimum of 98% of the

total working hours in a month. The total working hours will be calculated on the basis of 24 hours per day. The uptime will be calculated as follows:

$$\text{Uptime (\%)} = \frac{(\text{Total working hours in a month} - \text{Total downtime in hrs. for the month})}{\text{Total working hours in a month}} \times 100$$

Total working hours in a month = Total number of calendar days in a month x 24

Penalty = F x (H x D)

Where

F = Multiplication Factor as per Table-C given below.

H = Hourly AMC charges (i.e. Quarterly AMC charges / Total number of hours in the quarter)

AMC charges means site-wise AMC Charges

D = Downtime in hours

Table-C: Multiplication Factor for downtime

Uptime	Multiplication Factor (F)
> 98.0%	0.00 (Zero)
>97% - 98%	1.25
>96% - 97%	1.50
95% - 96%	1.75
< 95%	2.00

- During warranty period if the system fails to maintain the SLA then the downtime penalty amount will be deducted first from the quarterly maintenance charges.
- Time of reporting of all calls shall be within normal office hours i.e. 9:00AM to 5:30PM. For calls reported after 12 Noon, reporting time shall be accounted from next working day for downtime calculations purpose. However, the vendor should try to rectify the issue at the earliest (working hours accounted from 9:00AM to 5:30PM, Sunday & National Holidays are excluded).
- System down due to physical damage (like Rat Bitten / Theft Cases / Damage / Burnt cases) shall not come under vendor's service availability scope. Vendor has to restore the service within 2 days of reporting with assurance of restoration charges etc. Afterwards downtime shall be applicable. Any downtime other than above shall be accounted under vendor scope and penalty shall be applicable as per downtime clause.
- In case of Downtime deduction, the applicable GST shall also be recovered from vendor.

H. Payment Terms (Site-wise):

1. MAIN SCOPE:

- A. 80% of Supply Value excluding GST** shall be payable within 45 days on submission of Original GST Invoice, against submission of the following:
- Receipt and acceptance of material at site
 - Original LR/Consignment copy
 - Receipted delivery Challan
 - OEM Warranty Certificate (Original for Camera, NVR, UPS)
 - O&M manuals as applicable,
 - Conformance certificates from OEM as per scope (for Camera, UPS and NVR) (including availability of spares throughout the warranty period)
 - Newness Certificate (as indicated against the items in Bill of Material)
 - OEM MAF (Manufacturer Authorization Form) documents, as applicable.
- B. Balance 20% of Supply value plus 100% of Installation & Commissioning charges excluding GST and BOCW Cess**, as applicable shall be payable within 45 days against submission of the following:
- Installation & Commissioning Report signed by BHEL.
 - Warranty certificate by vendor for 2 years for entire CCTV system with 98% SLA
 - Submission/availability of Performance Bank Guarantee (PBG) of 10% of site-wise total order value in the prescribed format valid as per tendered PBG clause. The PBG confirmation charges shall be borne by vendor. If vendor opines not to submit PBG, equivalent amount of PBG will be kept withheld till completion of warranty/guarantee period. The withheld amount will be released after successful completion of warranty/guarantee period.
- C. Quarterly Maintenance charges** during the warranty period as per scope shall be payable within 45 days on submission of Original GST Invoice, against submission of the following:
- Quarterly visit report with BHEL official signature.

D. GST and Applicable BOCW Cess shall be payable subject to fulfilment of the followings:

- (i) such invoice appearing in GSTR-2A of BHEL on filing of valid returns by vendor as per GST law within timeline prescribed for availing ITC by BHEL, and
- (ii) Receipt of goods / services and Tax invoice by BHEL, and
- (iii) Confirmation of payment of GST thereon by vendor on GSTN portal.

2. OPTIONAL SCOPE:**i) PAYMENT TERMS FOR SHIFTING CHARGES (IF ORDERED)****A. 100% of lump sum shifting charges as per order excluding GST and BOCW Cess, as applicable** shall be payable, on completion of shifting job, within 45 days on submission of Original GST invoice against submission of the following:

- completion certificate duly signed by BHEL representative.

B. GST and applicable BOCW Cess, shall be payable subject to fulfilment of the followings:

- (i) such invoice appearing in GSTR-2A of BHEL on filing of valid returns by vendor as per GST law within timeline prescribed for availing ITC by BHEL, and
- (ii) Receipt of goods / services and Tax invoice by BHEL, and
- (iii) Confirmation of payment of GST thereon by vendor on GSTN portal.

- No advance shall be paid. Payment shall be paid through RTGS in INR only.
- Billing & payment shall be done site-wise for NTPC Barh, NTPC BRBCL Nabinagar, NTPC NPGCL Nabinagar, NTPC Kahalgaon and NTPC Bongaigaon site. Vendor shall maintain all correspondence site-wise.
- Paying Authority: RAO of Respective Sites.

I. Other Terms and Condition:

1. The vendor should submit the OEM (Original Equipment Manufacturer) authorization for camera, Network Video Recorder (NVR) & Radio Frequency (RF) devices with offer. Bidder should submit documentary evidence to ascertain the same. The OEM of camera and network video recorder (NVR) should be the same.
2. Bidder should have experience in installation and commissioning of the following:
 - Pan Tilt Zoom (PTZ) camera with Fiber / RF / UTP backbone.
 - NVR system with storage, display.
 Bidder needs to comply the above by submitting copy of order & Completion Certificate / documentary evidence issued by the client/end user in support of above along with details of customer contact.
3. BHEL office is having its own LAN & WAN system. The video surveillance system (NVR) shall be integrated with BHEL existing LAN / WAN. BHEL concerned will allot IP address etc. for the same.
4. During warranty period BHEL may ask for shifting of camera location within the site premises, vendor should execute the same as per optional scope.
5. Vendor shall provide UPS at identified location for powering the system. Camera & RF device to be powered through the UPS supply. If PTZ camera does not support POE separate copper connection needs to be provided from UPS.
6. User training after completion of installation is under vendor scope which should be inclusive in the quoted price.
7. Charges for deployment of manpower including fooding and lodging expenses for the above scope of main and optional job shall be borne by the vendor. No additional claims of vendor shall be entertained in this regard by BHEL.
8. During the warranty period any sort of job like cleaning of camera or any other job required pertaining to this matter shall be under the scope of the vendor.
9. The Maintenance of the entire setup during the entire warranty period shall be in the scope of the vendor.
10. During the contract period if any damage or similar incident happen which are not attributable to vendor & requires reinstallation, same shall be considered as shifting or alteration as per above scope.
11. Vendor has to submit quarterly maintenance visit report with BHEL concerned official signature for clearance of "Quarterly Maintenance Charges" at end of each quarter.
12. The coverage area and implementation topology shall be decided jointly by BHEL concerned before start of supply.
13. OEM Warranty should cover replacement / repair of devices from OEM. Vendor has to be provided undertaking or certification from OEM for availability of spare during the warranty period.
14. Theft / loss / physical damage related insurance issues are under BHEL scope as an outright item / device after the delivery & acceptance.
15. During maintenance, vendor may require accessing the BHEL server room / network racks. BHEL may ask vendor personnel for providing of non-disclosure agreement (NDA) for security purpose.
16. During the contract period BHEL shall not provide any other special utility required to perform the above job to vendor. The vendor nevertheless shall be required to deploy the legal and licensed software and branded hardware only for the purpose.
17. For maintenance / troubleshooting / support purpose vendor needs to furnish single point contact and escalation matrix for the CCTV system. A call register should be maintained for the record of call resolution.

18. Vendor should carry out all safety aspects as per site safety regulation. Project sites are inside the customer premises so all the customer protocol for working at site are to be followed.
19. Wherever fiber optic link is considered, towards optimization of cost vendor has to finalized the laying plan in consultation with BHEL concerned. Broadly in sensitive areas HDPE conduit is considered. For road crossing etc. GI pipe is considered. Rest are through PVC conduit or through cable trench without conduit. Site will cooperate in providing small / angle pole etc. through BHEL vendor.
20. Vendor should supply all item after getting concurrence / clearance from respective site concerned. Any excess supply beyond clearance shall not be accepted by BHEL. During preparation of material gate pass vendor should mention all returnable items specially tools necessary for installation commissioning of CCTV system.
21. It should be feasible to integrate the video surveillance system with any ONVIF supported centralized enterprise video wall.
22. Payment shall be made as per actual. Vendor should generate all papers accordingly.

J. Optional Scope:

1. The project sites are having ongoing erection commissioning activities and site situation may change with time, so alteration of camera location request may be submitted to the vendor. Vendor has to carry out shifting job within the warranty period. Additional charges for cable etc. consumable items and accessories shall be as per quoted rate.
2. Shifting means dismantling / re-installation of camera / RF and other usable items.
3. Notice period is 10 days for shifting of camera location within site and 30 days for inter- site.
4. Installation charges for additional camera and integration with existing NVR shall be as per optional scope. Additional material (if required) will be under BHEL scope or as per above.
5. Penalty on delay in shifting beyond notice period is applicable as per Liquidated Damage / Penalty clause of Installation & Commissioning of respective value of optional items.
6. Payment terms of option item is as per **Payment Terms – optional scope**.
7. For commissioning of the system, all the supporting arrangements/ items required for installation & commissioning will be provided by the vendor.

K. Termination:

BHEL PSER may terminate this CONTRACT at any time by informing the vendor of BHEL PSER's intention to do so in writing by giving notice for a period of **one month** and without assigning any reasons whatsoever. In such case, no payment will be given for the balance period of CONTRACT including period of unsatisfactory services, if any.

L. Force Majeure:

The service provider shall not be responsible for delay in delivery resulting from acts / events beyond his control, the service provider shall provide notice of the happening of any such act / event to the purchaser within 15 days from the date of its occurrence. Such acts / events shall include but not be limited to acts of God, war, floods, earthquakes, strikes, lockouts, epidemics, riots, fire or Governmental regulations superimposed after the date of order / contract.

M. Price Variation Clause: Not Applicable**N. Over Run Charges:** Not Applicable**O. Insurance:**

It is the sole responsibility of the contractor to insure his materials, equipment, workmen etc. against accidents and injury while at work and to pay compensation, if any, to workmen as per Workmen's Compensation Act. The work will be carried out in a protected area and all the rules and regulations of the client / BHEL in the area of project which are in force from time to time will have to be followed by the contractor.

P. TAXES, DUTIES ETC

1. All taxes excluding GST & BOCW Cess (as specified elsewhere in the tender) but including, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract shall be borne by successful bidder and shall not be payable extra by BHEL. Any increase of above at any stage during execution of contract, including extension of the contract, shall have to be borne by successful bidder contractor. Bidder's quoted/ accepted rates/ price shall be inclusive of all such requirements.
2. GST along with Cess (as applicable) legally leviable & payable by successful bidder as per GST Law shall be paid by BHEL, extra. Hence, bidder shall not include GST along with Cess (as applicable) in their quoted rates/ price.
3. Successful bidder shall furnish proof of GST registration with GSTN Portal covering the services under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by successful bidder on BHEL for this project / work.
4. Since GST on output will be paid by BHEL separately as enumerated above, bidder's your quoted rates / price should be after considering the Input Credit under GST law at bidder's end.
5. TDS under Income Tax Act shall be deducted as per prevailing IT rules from the bills.

6. TDS under GST shall be deducted as per prevailing GST rules from the bills.
- 7.1 You may collect TCS under section 206C(1H) of Income Tax Act, 1961 if applicable.
- 7.2 In case, you collect TCS under section 206C(1H) of Income Tax Act, 1961, following compliance is required.
 - 7.2.1 TAN and PAN of vendor should appear in all invoices/claims. Copy of TAN /TCS registration is to be submitted.
 - 7.2.2 Amount of TCS and Assessable value on which TCS has been calculated should be specified clearly in the invoice.
 - 7.2.3 You shall be required to submit certificate of TCS in Form no. 27D within 15 days from the due date for furnishing the statement of tax collected at the source.
- 7.3 In case, you do not collect TCS under section 206C(1H) of Income Tax Act, 1961, following declaration is to be submitted along with each invoice: -

“I/We hereby declare that I/We are not required to collect TCS under section 206C(1H) of Income Tax Act, 1961, on this bill.
- 7.4 In event of failure to comply with the provisions of the Act, or proper certificate not issued, or if tax collected but not remitted to the Government, or for any other reason and thereby causing loss to BHEL, the same shall be recoverable from the vendor with applicable interest.
- 7.5 You shall comply with all statutory amendment/notifications in this respect.
8. Bidder shall note that GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred thereunder) wherein the 'Bill To' details shall encompass following.

BHEL GSTN – Refer attached GSTN code table of BHEL.
Name - BHARAT HEAVY ELECTRICALS LIMITED
Address - Shall be intimated later.
Specific details of BHEL GSTN, Name and Address as stated above, have been specified elsewhere in the tender.
9. Successful bidder to intimate immediately on the day of removal of goods (in case of any supply of goods) to BHEL along with all relevant details and send a scanned copy of Tax Invoice to BHEL through following communication mode for enabling BHEL to meet its GST related compliances. Portal address. and Email address
– Shall be intimated later. Specific details of above shall be intimated to successful bidder by BHEL at appropriate juncture.
10. In case of delay in submission of above mentioned documents on the date of despatch, BHEL may incur penalty / interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from successful bidder, in case such delay is not attributable to BHEL.
11. In case of raising any Supplementary Tax Invoice (Debit / Credit Note), successful bidder shall issue the same containing all the details as referred to in Section 34 read with Section 31 of GST Act & Rules referred there under.
12. Successful bidder shall comply with the Time Limit prescribed under the GST Law and rules thereof for raising of the Tax Invoice. If any supply of goods is applicable, successful bidder shall also ensure prompt delivery of goods after despatch.
13. Bidder shall note that in case GST credit is delayed / denied to BHEL due to delayed / non receipt of goods and / or Tax Invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reasons, not attributable to BHEL, GST amount shall be recoverable from successful bidder along with interest levied/ leviable on BHEL, as the case may be.
14. Successful bidder shall upload the invoices raised on BHEL in GSTR-1 within the prescribed time as given in the GST Act, and the same shall be available to BHEL in FORM GSTR-2A/2B electronically through the common portal. Bidder shall note that in case of delay in declaring such invoice in your 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
15. Way Bill: Successful bidder to arrange for way bill / e-waybill for any transfer of goods for the execution of the contract. Successful bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit / Way Bill, if required, shall be arranged by successful bidder and BHEL will not supply any Road Permit/ Way Bill for this purpose.
16. Any new taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.
17. Benefits and / or abolition of all existing taxes must be passed on to BHEL against new taxes, if any, proposed to be introduced at a later date.

ANNEXURE-TS: TECHNICAL SPECIFICATIONS

A. IP outdoor PTZ Camera (Dome Type)

Make and model to be quoted by vendor

Vendor needs to submit OEM specification sheet along with working manual for the item

Sl.	Feature	Details	Complied (Yes/No)	Remarks
Sensor				
1	Sensor Type and Size	1/1.8" progressive scan CMOS or better		
2	Minimum Illumination	Color: 0.002 Lux @ F1.2, B/W: 0.0002 Lux @ F1.2, 0 Lux with IR		
3	Lens Type	Zoom		
4	Focal Length	6.0mm to 252mm or better		
5	Max. Image Resolution	1920 × 1080		
6	Field Of View	Horizontal field of view Vertical field of view Diagonal field of view		
7	Shutter Time	1/1 s to 1/30,000 s		
8	Optical Zoom	32X Optical Zoom or Better		
9	Digital Zoom	16X Digital Zoom or Better		
10	White Balance	Required		
11	Day and Night	Support IR cut with auto switch. Day, Night, Auto.		
12	Aperture Range	At least F=1		
13	IR Range	At least 400 Mtr.		
14	IR Type	Auto / Manual or better		
15	Privacy Mask	At least 8 programmable privacy masks		
PTZ				
16	Movement Range (Pan)	360° endless		
17	Pan Speed	Configurable, from 0.1°/s to 210°/s or Higher Preset speed: 280°/s or Better		
18	Movement Range (Tilt)	From -20° to 90° or Better		
19	Tilt Speed	Configurable, from 0.1°/s to 150°/s or Higher Preset Speed: 200°/s or Better.		
20	Presets	At least 8		
21	Features required	Preset / Pattern Scan / Patrol Scan / Auto Scan / Tilt Scan / Random Scan / Frame Scan / Panorama Scan		
22	Patrol Scan	8 patrols, up to 32 presets for each patrol		
Smart Features				
23	Preferable Analytics Features	Motion Detection, Face Detection, Intrusion Detection, Line Crossing Detection, Region Entrance Detection, Region Exiting Detection, Audio Exception Detection or equivalent		
24	Tracking	Manual Tracking, Auto Tracking (support tracking specified target types such as human and vehicle), Event Tracking or equivalent required		
25	Image Enhancement	HLC, BLC, 3D DNR, Defog, EIS.		
Network				
26	Network Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE or equivalent		
27	Alarm Interface	1-ch alarm input and 1-ch alarm output or more		
28	Audio Interface	1-ch audio input and 1-ch audio output		
Image and Video				
29	Video Compression	H.265+, H.265, H.264+, H.264, MJPEG or equivalent		
30	Resolutions	At least 25fps support or equivalent		

31	Max. Number of Simultaneous Streams	At least 3 video streams, with main stream support 1920 X 1080 resolution @25fps , sub-stream 704 X 576 @ 25fps.		
32	Security Measures;	User authentication (User ID and Password)		
33	Image Features	PTZ, Digital Zoom, Image Snapshots		
	Events and Actions			
34	Events	Motion Detection, Line Intrusion, Trip Wire(3 Lines), Zone Intrusion(3 zones), IP-Conflict, Network-Disconnect, Storage Alert or equivalent		
35	Actions	Email with Snapshot / TCP Notifications, Alarm Recording or equivalent		
	General Specifications			
36	Communication Interface	10Base-T / 100BaseTX or higher self-adaptive Ethernet port (RJ 45)		
37	Network and Local Storage	Built-in Micro SD / SDHC / SDXC card up to 256GB		
38	Power Consumption	Upto 30 VAC (Max. 60 W) PoE or equivalent		
39	Operating Temperature / Storage Temperature	0 to 50 Degree / (-)20 to 60 Degree		
40	Operating Humidity	Less than or equal to 90% RH		
41	Material Type	Aluminum or equivalent		
42	Protection Level	At least IP66 or higher (IEC 60529-2013), IK10, TVS 6000 Lightning Protection, Surge Protection and Voltage Transient Protection		
43	Warranty	At least 2 years from the date of installation as per certification from Indenting Department.		
44	Certification	CE, FCC, UL, BIS.		
45	Accessories required	Vendor to supply power adapter along with necessary mounting kit along with camera		
46	Range of Make	Bosch, Pelco, Axis, Hikvision, Prama, Honeywell, Mobiteck, Infinova.		

B. Surveillance Class Common Micro SD Card 128GB**Make and model to be quoted by vendor**

Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	RAM size	128 GB		
2	Flash Memory Type	Micro SD		
3	Digital Storage Capacity	128 GB		
4	Hardware Platform	Camera		
	Reputed make			

C. 16 Channel Network Video Recorder**Make and model to be quoted by vendor**

The OEM of camera and network video recorder (NVR) should be the same

Sl.	Feature	Details	Complied (Yes/No)	Remarks
	Video			
1	Input	16 IP Channels or more		
2	Output	HDMI (2.0) – 1 Port		
3	Compression	H.265 / H.264 / Motion JPEG or equivalent		

	Audio			
1	Input	At least 1 Channel		
2	Output	At least 1 Channel		
	Throughput			
1	Min. Incoming Throughput	At least 300 Mbps		
2	Simultaneous Log-in	At least 5		
	Display			
1	Resolution (HDMI)	4k, 2K or equivalent		
2	Local Decoding	H.265 / H.264 / MPEG4 or equivalent		
3	Digital Zoom on Live	Yes		
4	Snapshot	Yes		
5	Multiple Camera Viewing	Through Cascading (up to 16 Devices)		
6	OSD	Channel Number and Name, Status, Video Loss or equivalent		
	Recording			
1	Image Resolution	At least 4MP / 3MP / 1080p / 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF or equivalent		
2	Snapshot Format	JPEG		
3	Recording Types	Scheduled, Manual, Alarm or equivalent		
	Playback & Backup			
1	Search Mode	Date and Time, Camera, Event, Recording Type		
2	Playback Modes	Fast Forward, Slow Forward, Fast Reverse, Slow Reverse, Next-Previous Frame or equivalent		
3	Backup	Manual Backup over USB and NAS, Scheduled Backup over USB, NAS and FTP		
4	Network Functions	TCP/IP, DHCP, PPPOE DNS, DDNS, FTP, SMTP, NTP, RTP/RTSP, HTTP, CIFS/NFS, UPnP		
5	Remote Operation	Monitor, PTZ Control, Playback, System Setting, File Download, Log Information, Upgrade or equivalent		
	Storage			
1	SATA Interface	4 SATA (6 TB per port). Vendor to supply 4X6 TB Surveillance class SATA HDD		
2	USB	Should support 1 TB USB Drive		
3	RAID	Should support at least RAID-0		
	Interfaces			
1	Network Interface	1 Port x Ethernet (RJ-45) 10/100/1000Mbps		
2	USB	1x USB 3.0, 1x USB2.0		
3	LED	System Status LED, Power LED		
4	Reset option	required		
	System Interface			
1	OS	Windows / Linux with GUI		
	Camera Support			
1	Camera Brands support	ONVIF 2.0 & above Support or equivalent		
2	ONVIF	Yes, Should be support other OEM ONVIF cameras.		
	Environment Conditions			
1	Operating Temperature	0°C to +50°C (32°F to 122°F) or better		
2	Humidity Range	10% to 90% RH Non-Condensing or better		

	Electrical & Mechanical			
1	Power Input	SMPS (100-240 Volt AC)		
	General			
1	Warranty	At least 2 years from the date of installation as per certification from Indenting Department		
2	Certification	CE, FCC, UL, BIS		
	Range Make	Make shall be same as Camera Make as quoted by bidder		
D. Wireless bridge consisting of wireless base station and wireless CPEs operating on RF				
Make and model to be quoted by vendor				
Sl.		Parameter & Specification	Complied (Yes/No)	Remarks
1		Radio System should operate in India ISM Band (5GHz) as per WPC Regulation.		
2		The Radio should support AES-128 and PPS of 60000 or more.		
3		The BS Radio System should support synchronization mechanism of transmission timing of different collocated- Sites to eliminate mutual interference between multiple sites through GPS.		
4		BS should be supporting up to 360-degree coverage.		
5		The BS radio system should be IP66/IP67 or higher for dust and water Ingress protection and attach certification by International/Government Accredited Lab.		
6		The Radio System should support the Quality of Service based on 3 Queue according to 802.1p/Diffserve		
7		The BS Radio System must deliver actual/net usable aggregate throughput of 500 Mbps with Single base station radio.		
8		Radio system should operate on TDMA duplexing mode or Scheduler mode or in any other parallel technologies and should support Channel Bandwidth of 20/40/80 MHz.		
9		The Base station sector radio should support up to 29dBm (Tx Power on Antenna Port).		
10		Radio should cover distance of 10 Kms or better		
11		The radio System should support SNMPv3 & Telnet/SSH.		
12		The user should able to configure upload and download percentage in step of 1%. Radio should support Symmetric & asymmetric bandwidth configurable up to 80%: 20% in either direction. Downlink Rate supported 75/25, 50/50 and 30/70		
13		The radios should support Regulations - FCC PART 15, part C, WPC - GSR-38-E for wireless.		
14		The Radio should support safety standards - UL 60950-1 or UL 60950-22.		
15		With POE injector for inerconnection with switch and RF device through STP Cat5 / Cat5e cable		
	Range of make	Cisco, Cambium, Aruba, Radwin, Wavesight , Alverian, ruckus		

E. Wireless CPE operating on RF - client station				
Make and model to be quoted by vendor				
Sl.		Parameter & Specification	Complied (Yes/No)	Remarks
1		CPE radio should support Automatic Transmit Power Control (ATPC) to limit the power and reduce unnecessary interference to other CPEs in the proximity.		
2		Radio system should operate on TDMA duplexing mode or Scheduler mode or in any other parallel technologies and CPE should be IP66 or higher.		
3		Should support throughput upto 50 Mbps		
4		CPE Radio should support adaptive modulation		
5		Radio System should support MTU size of 1700 bytes or higher, increasing fragmented frame size by limiting overheads and delivering higher data for a given duration of time		
6		The Radio System should support the Quality of Service according to IEEE 802.1p, TOS/Diffserve		
7		The Radio should support AES-128 or FIPS 197 encryption certifications.		
8		The radios should support Regulations - FCC PART 15, part C, WPC - GSR-38-E for wireless.		
9		The Radio should support safety standards - UL 60950- 1 or UL 60950-22.		
10		With POE injector for inerconnection with switch and RF device through STP Cat5 / Cat5e cable		
	Range of make	Cisco, Cambium, Aruba, Radwin, Wavesight, Alvarion, Ruckus		
F. 8 port Gigabit switch				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Ports	At least 8 10/100/1000 Mbps Auto sensing RJ-45 Power over Ethernet Ports and at least 2 SFP ports		
2	Standard Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Full-duplex Flow Control IEEE 802.3ab 1000BASE-T IEEE/ANSI 802.3 N way auto- negotiation IEEE-802.3af / IEEE-802.3 at standard		
3	Packet forwarding rate	At least 1488100 PPS for 1000BASE-TX		
4	Protocol	CSMA/CD		
5	Data Transfer Rates	Ethernet: 10 Mbps (Half-duplex), 20 Mbps (Full Duplex) Fast Ethernet: 100 Mbps (Half- duplex), 200 Mbps (Full Duplex) Gigabit Ethernet: 1000 Mbps		
6	Power Supply	Internal (100~240V AC)		
7	Forwarding mode	Store-and-forward		
8	Backplane	At least 16 Gbps		
9	Buffer memory	At least 192 Kbytes		

10	MAC Address database:	At least 2K		
11	Operating temperature:	0°C to 40°C or better		
12	Operating humidity:	10% to 90% RH (non-condensing) or better		
13	Storage temperature:	0° to 60°C		
14	Warranty	At least 2 years from the date of installation as per certification from Indenting Department		
	Range of Make	Cisco, D-Link, TP-Link, Ubiquity, Gigabyte, Netgear or equivalent model		

G. 32 Inches Surveillance Monitor

Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Screen Size	At least 31.5 inches		
2	Backlight	LCD / LED		
3	Resolution	1920 x 1080 or 1,366 X 768 or 4K or better		
4	VGA input	At least 1		
5	DVI-D input	At least 1		
6	HDMI input	At least 1		
7	Audio in	At least 1		
8	Earphone out	At least 1		
9	Power Cord	At least 1		
10	VGA Cable / HDMI cable / DP cable	At least 1		
11	User Manual	At least 1		
12	Pedestal	At least 1		
13	Power Supply Voltage	100~240 V ac 50~60 Hz		
14	Warranty	At least 2 years from the date of installation as per certification from Indenting Department		
	Range of Make	LG, Samsung, Sony, HP, Dell, Lenovo		

H. CAT5 or CAT5e STP Cable

Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Conductor	Solid bare Copper and Twisted 4 pair stranded over Cross PE Separator filler, Inner sheath or equivalent, 0.50 MM Diameter (+/-)		
2	Compliance to standards	ANSI/TIA 568-C.2 & ISO/ IEC11801 or equivalent		
3	AWG	23 or higher		
4	Insulation	High Density Polyethylene Solid or equivalent		
5	Jacket	PVC / LSHZ		
6	Network	Cat 5 or Cat 5e Armored cables should Support Ethernet (100 base-T or 1000 base-T or higher) standard		
7	Length	305 Meters per box		
8	Type	Armoured		
9	Shield:	Aluminum / Polyester Foil or similar		
	Range of Make	D-Link, TP-Link, Molex, R&M, UniGear or equivalent reputed make		

I. CAT6 UTP Patch Cord				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Length	2 Meters		
2	Make	Dlink / Molex / TP Link or equivalent		
J. STP RJ45 Connector				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Make	D-Link / Molex / TP-Link or equivalent		
K. Optical Fiber Cable				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Mode	Single Mode		
2	Core Count	6 Core		
3	Make	Digisol / Molex / D-Link or equivalent		
4	Type	Armoured		
	Range of Make			
L. Fiber Optic Patch Cord				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Mode	Single Mode		
2	Make	D-Link / Molex / TP-Link or equivalent		
3	Length	3 Meters		
M. 1 kVA UPS & 0.6 KVA UPS				
Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
	Output			
1	Output Capacity	1 kVA or 0.6kVA as per BOM		
2	Output Voltage / Frequency (On utility)	230V / 50/60 Hz +/-5 Hz or better		
3	Output Voltage / Frequency (On battery)	230V +/-8%, 50 or 60 Hz +/-1 Hz (auto-sensing) or better		
4	Output Connections	4 IEC 320 C13 / 3 pin or higher sockets		
5	Waveform Type	Stepped Approximation to Sine Wave or equivalent		
6	UPS Type	Offline / line interactive		
	Input			
7	Input Voltage / Frequency	230V / 50/60 Hz +/-3Hz or better		
8	Input Connection	IEC-320 C14/3 pin or higher sockets		
	Surge Protection			
9	AC Power Surge Protection	All outlets		
पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax: (033) 23211960 फ़ोन/Phone: बोर्ड/EPABX: 23398220				Page - 37 of 61

	Physical			
10	Unit Dimensions (HxWxD)	utmost 400 x 320 x 600 mm Compact in size		
11	Unit Weight	Not more than 25.0 Kgs (0.6 Kva equivalent)		
	Battery			
12	Battery Type	Maintenance-free, sealed lead- acid battery, leak proof		
13	Recharge time	Less than 12 hours		
14	Backup time	15 minutes at least with load of 1 Switch & other connected device with UPS		
	Management			
15	Alarms	Visual (LED) and audible alarms		
	Manufacturing			
16	Warranty	At least 2 years from the date of installation as per certification from Indenting Department		
	Range of Make	APC, Microtech etc. equivalent compact type UPS should fit with in the outdoor weather proof box		

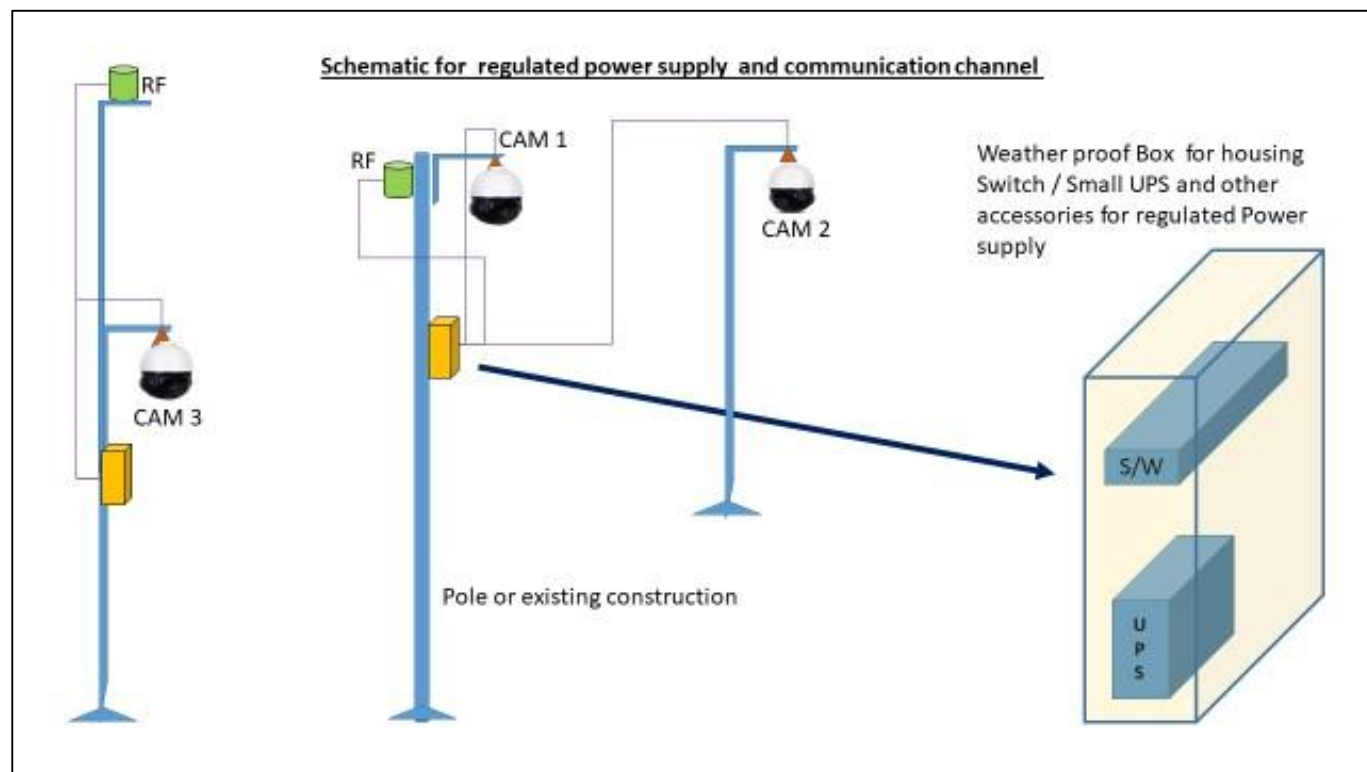
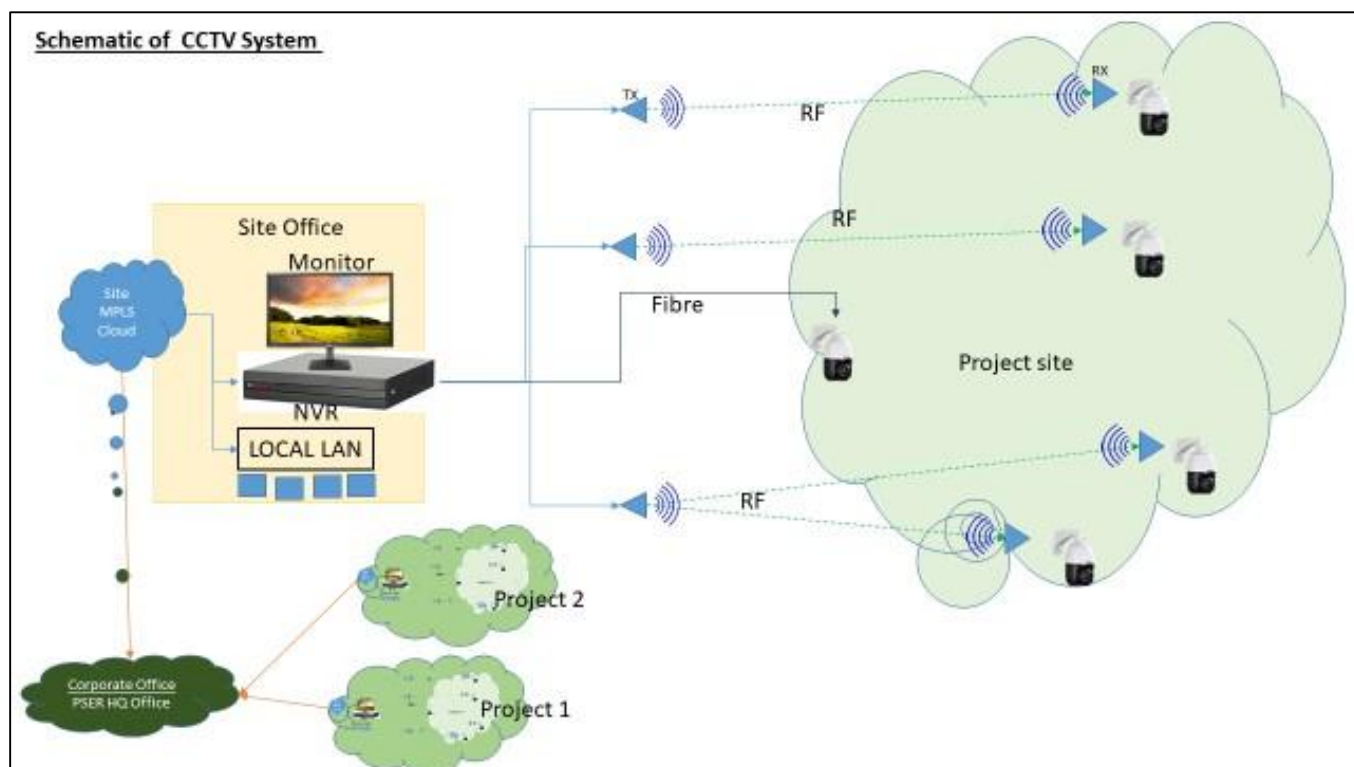
N. Weather Proof Outdoor Box

Make and model to be quoted by vendor				
Sl.	Feature	Details	Complied (Yes/No)	Remarks
1	Length	At least 380 mm		
2	Width	At least 600 mm		
3	Height	At least 350 mm (6U equivalent)		
4	Operating temperature	-20°C to +110°C IP 54 (+/-)		
5	Environmental Specifications	Against intrusion, dust, accidental contact and water		
6	Lock key - facility	Locking facility should be available		
7	Door Opening	90-120 Degrees		
8	Mounting Kit	Required / Included		
9	Material	Stainless steel / PVC		
10	General	The box should be able to house the UPS and Switch and should include accessories like loaded jackplane, power distribution box, mounting hardware etc.		
11	Power Distribution strip / Box	Should have sufficient nos of PORT to cater all active device connected to the UPS (Devices within BOM) along with POE Injector. Active devices means RF and Camera, switch POE injector etc. Should be installed inside the rack		

O. 9U Rack

Make and model to be quoted by vendor				
Sl.	Feature	Parameter & Specification	Complied (Yes/No)	Remarks
1		The Rack Size Should be of 9U (16.6- 19 inches) of dimension.		
2		Rack should be lockable from all the sides for security		

3		The rack should be provided with cable access roof and bottom cover for routing cables inside the cabinet		
4		The rack should be able to carry load of 40 Kgs		
5		Rack Should be powder Coated.		
6		Should have removable side panel for easy access.		
7		Fan Unit: - For Air Ventilation and Heat Sink should be mounted on the top end of the rack.		
8		Wall Mounting Hardware :- Set of 2 Mounting Hardware Unit for Assembling the Rack and mounting Device along with at least 1 tray		
9		Cable Manager: - Vertical and Horizontal Cable Manager should be provided for easy cable management.		
10		Power Distribution Unit: - Min 5 Socket Power Distribution Unit should be provided for Power Management inside the rack.		
11		The rack should be fitted with 24 Port Jack Panel loaded with Cat 6 I/O.		
12		The rack should have LIU fitted inside to accommodate at least 2 nos of 6 core fiber cable		
13		At least 3 years from the date of installation as per certification from Indenting Department.		
14		For the termination of the Optical Fiber Cable in 6 U Racks, vendor may follow following methodologies:		
		(a) Terminate the Optical fiber cable directly into the 4 port un-managed PoE switch. For this the quoted 4 port un-managed PoE switch should have Small form-factor (SFP) pluggable port. The vendor needs to supply the Small form-factor (SFP) transceiver module compatible with the supplied switch.		
		Or		
		b) Terminate the Optical Fiber Cable in Fiber Patch Panel (LIU) in the 6U Outdoor Rack. Then connect the Optical Fiber Cable to 4 port un-managed PoE switch through media converter (preferable make TP Link/ Dlink/ Digisol or any equivalent make).The vendor need to supply media converters (which will be part of the 6U Outdoor Rack with all accessories as per the BILL of Material).		
		Vendor need to specifically mention the Optical Fiber Cable termination scheme (either a or b or both) while submitting the technical offer.		
		All the accessories like Small form-factor (SFP) transceiver module/ media converter shall be under Two years default warranty from the date of installation as per certification from Indenting Department		
	Power Distribution strip / Box	Shoul have sufficient nos of PORT to cater all active device connected to the UPS (Devices within BOM) along with POE Injector. Active devices means RF and Camera, switch POE injector, NVR, Monitor etc. Should be installed inside the rack		
	Make	Reputed make		

Project-wise schematics and tentative PTZ Camera and RF location







PART-E

PRICE SCHEDULE (UNPRICED) - VOLUME-III

PLEASE REFER
E-PROCUREMENT PORTAL <https://eprocurebhel.co.in>

PART-E

PRICE SCHEDULE - VOLUME-III

PLEASE REFER
E-PROCUREMENT PORTAL <https://eprocurebhel.co.in>

ABOVE TO BE READ ALONG WITH SCH-2
(WEIGHTAGE) OF PRICE SCHEDULE (VOLUME-III)

VOLUME-III: PRICE SCHEDULE

JOB: SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM.

TENDER NO. PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022

SCH-1 : TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	GRAND TOTAL PRICE (IN INR)
1.0	MAIN JOB: GRAND TOTAL PRICE FOR SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM AS PER TECHNICAL SPECIFICATIONS.	SCH 2 - PRICE BREAK UP	IN FIGURES:- <u>TO BE FILLED ONLINE ONLY</u> IN WORDS:- <u>TO BE FILLED ONLINE ONLY</u>

SL NO	DESCRIPTION	UNIT	QTY.	GRAND TOTAL PRICE (IN INR)
2.0	OPTIONAL JOB: 30 Mtr. self-supported mast	Nos	3	IN FIGURES:- <u>TO BE FILLED ONLINE ONLY</u> IN WORDS:- <u>TO BE FILLED ONLINE ONLY</u>
3.0	OPTIONAL JOB: Lump sum price for shifting of camera location within site – Excluding of any material as per scope.	Lumpsum	1	IN FIGURES:- <u>TO BE FILLED ONLINE ONLY</u> IN WORDS:- <u>TO BE FILLED ONLINE ONLY</u>
4.0	OPTIONAL JOB: Lump sum price for shifting of camera location across site – Excluding of any material.	Lumpsum	1	IN FIGURES:- <u>TO BE FILLED ONLINE ONLY</u> IN WORDS:- <u>TO BE FILLED ONLINE ONLY</u>

NOTE

1.0	Bidder shall quote GRAND TOTAL PRICE for SCH-1 Part for Main Job at SI No. 1 above. All other amounts / rates of each item of job in SCH-2 - PRICE BREAK-UP OF MAIN JOB will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place / schedule will not be reckoned & will stand null & void.
2.0	Bidder shall quote UNIT PRICE for SCH-1 Part for Optional Jobs at SI No. 2, 3 & 4 above. However Optional Jobs shall not be considered for evaluation purpose. Optional item may or may not be ordered depending on the actual situation at site during execution but vendor have to quote for the same mandatorily. BHEL reserves the right to rationalize the rates for Optional Jobs, quoted by L-1 bidder against itemwise lowest rates for Optional Jobs (among the participating bidders), before placement of order.
3.0	Bidder to note that GRAND TOTAL PRICE at SI No. 1 above shall be considered for evaluation & awarding. The GRAND TOTAL PRICE shall be on "All Inclusive Total F.O.R Destination Price (i.e. Basic + Freight + Transit Insurance + Loading/Unloading etc) excluding GST & BOCW Cess" for Supply, Installation & Commissioning and Maintenance for all the items for all the sites. The evaluation shall be done on "Totality of all the items" basis. As such, GRAND TOTAL PRICE should be complete in all respect for the full scope defined and considering all terms and conditions except Optional Jobs.
4.0	Based on the itemwise percentage allocations, the amount for the individual items/jobs of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items and its quantity after rounding off to upto 2 decimal places. Vendor may be asked to provide Price Break Up for the same maintaining the weightage as per Sch-2. However, RA bill payment shall be done after rounding off the gross amount to two decimal points. Any adjustment, if required, due to such methodology, will be effected / adjusted in final bill.
5.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of job executed at the unit rate arrived at. Offered unit price shall be firm for entire contract period.
6.0	Any item as per scope of job, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
7.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.
8.0	The quoted GRAND TOTAL PRICE shall be including basic, freight, Transit insurance, loading/ unloading etc. charges on FOR site basis but excluding GST & BOCW Cess. GST & BOCW Cess will be paid extra, as applicable.
9.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.
10.0	Item wise unit rates shall be taken from the successful bidder before awarding of the contract.

VOLUME-III : PRICE SCHEDULE				
JOB: SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM.				
TENDER NO. PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022				
SCH-2 : PRICE BREAK UP OF MAIN JOB				
SL NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY. (for 5 sites)	WEIGHTAGE
A	SUPPLY OF ITEMS FOR SURVEILLANCE SYSTEM			0.80
1	IP outdoor PTZ camera with mount bracket, power supply unit and mounting kit , supported POE injector	Numbers	17	
2	Surveillance class common micro SD 128 GB	Numbers	17	
3	Network Video Recorder 16 channel with 4X6TB SATA surveillance class HDD	Numbers	5	
4(a)	Wireless bridge consisting of wireless base station and wireless CPEs operating on RF with supported POE Injector	Numbers	6	
4(b)	Wireless CPE operating on RF - client station supported POE Injector	Numbers	15	
5	8 port Gigabit switch	Numbers	17	
6	32 inches surveillance monitor	Numbers	5	
7	9U Rack - indoor (NVR section)	Numbers	5	
8	Outdoor weather proof box (for camera locations)	Numbers	16	
9(a)	1 kVA line interactive / offline UPS	Numbers	5	
9(b)	0.6 kVA line interactive / offline UPS	Numbers	16	
10	CAT5 / CAT5e STP cable	Box	5	
11	Optical fiber cable	Meters	5000	
12	Fiber optic patch cord	Numbers	8	
13	LIU for rack 12 port fully loaded with SCSM adapter / pigtail	Numbers	11	
14	SFP Module SM	Numbers	6	
15	CAT 6 UTP patch cord	Numbers	36	
16	CAT 5 STP RJ45 connectors	Numbers	108	
17	HDPE pipe (Local make)	Meters	400	
18	Casing / Conduit (Local make)	Meters	2000	
19	Safety Accessories for road and overhead works (Local make)	Lot	5	
20	1.5 sq. mm 3 core power cable	Meters	600	
21	GI pipe - for road crossing	Meters	30	
B	INSTALLATION, COMMISSIONING, TESTING, STABILIZATION, DEMONSTRATION, TRAINING OF SURVEILLANCE SYSTEM			0.10
1	Laying of CAT 6 UTP cable (through casing / conduit / HDPE)	Meters	2500	
2	Laying of Optical Fiber with out of casing / conduit	Meters	4200	
3	Laying of Optical Fiber (through casing / conduit / HDPE)	Meters	800	
4	Termination of OFC in LIU and OFC Splicing	Lot	2	
5	One time Installation, commissioning, testing, stabilization, demonstration and training etc. charges for complete system as per scope	Lot	5	
C	MAINTENANCE OF SURVEILLANCE SYSTEM			0.10
1	Labour charge (which will be paid quarterly) for Maintenance of the setup for a period of 2 years as per scope (Referred as Maintenance Period)	Quarters	40	
	TOTAL			1.00
Note:	1. Refer. SCH-3 for Site-wise break-up of the items mentioned above. 2. Quantities mentioned under Sl. No. Sl. No. A-10 to A-21 and B-1 to B-4 are variable (Increase or Decrease) and they will be paid on the basis of actual execution. Quoted Rates shall remain firm within the variation of (+/-) 30 (Thirty percent) percent of the total contract value.			

VOLUME-III: PRICE SCHEDULE

JOB: SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF SURVEILLANCE SYSTEMS THROUGH IP PTZ CCTV CAMERA AT 5 PROJECT SITES OF BHEL PSER AT BIHAR AND ASSAM.

TENDER NO. PSER:PUR:MSX:223(I):029 (ENQ:22:PP:0015:PUR:41) DATE: 07/07/2022

SCH-3 : QUANTITY BREAK UP FOR EACH SITE

MAIN SCOPE / ITEMS

SUPPLY OF ITEMS FOR SURVEILLANCE SYSTEM								
SL. NO.	ITEM DESCRIPTION	UNIT	QTY. BREAK UP FOR EACH SITE					TOTAL QTY.
			Barh	BRBCL	NPGCL	KAHAL GAON	BONGAI GAON	
A	SUPPLY OF ITEMS FOR SURVEILLANCE SYSTEM							
1	IP outdoor PTZ camera with mount bracket, power supply unit and mounting kit, supported POE injector	Numbers	5	2	5	3	2	17
2	Surveillance class common micro SD 128 GB	Numbers	5	2	5	3	2	17
3	Network Video Recorder 16 channel with 4X6TB SATA surveillance class HDD	Numbers	1	1	1	1	1	5
4(a)	Wireless bridge consisting of wireless base station and wireless CPEs operating on RF with supported POE Injector	Numbers	2	0	1	2	1	6
4(b)	Wireless CPE operating on RF - client station supported POE Injector	Numbers	5	0	5	3	2	15
5	8 port Gigabit switch	Numbers	5	2	5	3	2	17
6	32 inches surveillance monitor	Numbers	1	1	1	1	1	5
7	9U Rack - indoor (NVR section)	Numbers	1	1	1	1	1	5
8	Outdoor weather proof box (for camera locations)	Numbers	5	2	4	3	2	16
9(a)	1 kVA line interactive / offline UPS	Numbers	1	1	1	1	1	5
9(b)	0.6 kVA line interactive / offline UPS	Numbers	5	2	4	3	2	16
10	CAT5 / CAT5e STP cable	Box	1	1	1	1	1	5
11	Optical fiber cable	Meters	3000	2000	0	0	0	5000
12	Fiber optic patch cord	Numbers	2	6	0	0	0	8
13	LIU for rack 12 port fully loaded with SCSM adapter / pigtail	Numbers	7	4	0	0	0	11
14	SFP Module SM	Numbers	2	4	0	0	0	6
15	CAT 6 UTP patch cord	Numbers	10	4	10	6	6	36
16	CAT 5 STP RJ45 connectors	Numbers	30	12	30	18	18	108
17	HDPE pipe (Local make)	Meters	300	100	0	0	0	400
18	Casing / Conduit (Local make)	Meters	500	300	600	300	300	2000
19	Safety Accessories for road and overhead works (Local make)	Lot	1	1	1	1	1	5
20	1.5 sq. mm 3 core power cable	Meters	150	100	150	100	100	600
21	GI pipe - for road crossing	Meters	20	10	0	0	0	30
B	INSTALLATION, COMMISSIONING, TESTING, STABILIZATION, DEMONSTRATION, TRAINING OF SURVEILLANCE SYSTEM							
1	Laying of CAT 6 UTP cable (through casing / conduit / HDPE)	Meters	300	100	900	600	600	2500
2	Laying of Optical Fiber with out of casing / conduit	Meters	2500	1700	0	0	0	4200

3	Laying of Optical Fiber (through casing / conduit / HDPE)	Meters	500	300	0	0	0	800
4	Termination of OFC in LIU and OFC Splicing	Lot	1	1	0	0	0	2
5	One time Installation, commissioning, testing, stabilization, demonstration and training etc. charges for complete system as per scope	Lot	1	1	1	1	1	5
C MAINTENANCE OF SURVEILLANCE SYSTEM								
1	Labour charge (which will be paid quarterly) for Maintenance of the setup for a period of 2 years as per scope (Referred as Maintenance Period)	Quarters	8	8	8	8	8	40
OPTIONAL SCOPE / ITEMS								
SL. NO.	ITEM DESCRIPTION	UNIT	Barh	BRBCL	NPGCL	Kahal gaon	Bongai gaon	TOTAL QTY.
D	OPTIONAL							
1	30 Mtr. self-supported mast	Numbers	2	0	1	0	0	3
2	Lump sum price for shifting of camera location within site – Excluding of any material.	Lot	1	1	1	1	1	5
3	Lump sum price for shifting of camera location across site – Excluding of any material.	Lot	1	1	1	1	1	5

PART-H:**FORMS AND PROCEDURES****F-01****RTGS FORMAT****Form for getting payment through RTGS (Real Time Gross Settlement)**

01. NAME OF VENDOR:
02. ADDRESS:
03. VENDOR'S BANK A/C NAME:
04. VENDOR'S BANK A/C NO.:
05. NAME OF BANK:
06. NAME OF BRANCH:
07. BRANCH PH. NO.:
08. CITY:
09. IFSC CODE OF THE BRANCH:

THE CHARGES IF ANY FOR PAYMENT THROUGH RTGS MAY BE RECOVERED FROM THE BILL SUBMITTED BY US.

SIGNATURE OF AUTHORISED
REPRESENTATIVE OF VENDOR WITH DATE
& SEAL

CONFIRMATION BY BANKER WITH
OFFICE SEAL

Note: Incorrect information will create accounting complications and payment will be delayed.

F-02VENDOR DETAILS

1. Name & address of the vendor/company:
2. PAN No. of the vendor/company (scan copy of PAN Card):
3. Contact Person for the vendor/company:
4. Mobile number & E-mail of the contact person:
5. VAT / TIN:
5. CST:

SIGNATURE OF THE BIDDER WITH DATE & SEAL

F-03**FORMAT FOR DETAILS OF BIDDER**

NAME OF BIDDER	
FAX NO.	
Registration Number*	
Name of Partners / Directors	
Bidder Type Indian/ Foreign*	
City*	
State*	
Country*	
Postal Code*	
PAN/TAN Number*	
Company's Establishment Year	
Company's Nature of Business*	
Company's Legal Status* {limited company/ undertaking/joint venture/partnership/other}	
Company Category* {micro unit as per MSME/small unit as per MSME/medium unit as per MSME/Ancillary unit/project affected person of this company/ssi/ other}	
Enter Company's Contact Person Details Title(Mr. / Mrs. / Ms. / Dr. / Shri)*	
Contact Name*	
Date Of Birth*	
Correspondence Email* (Correspondence Email ID can be same as your Login ID. All the mail correspondence will be sent only to the Correspondence Email ID.)	
Designation	
Phone*	
Mobile*	

SIGNATURE OF THE BIDDER WITH DATE & SEAL

F-04**PROFORMA OF BANK GUARANTEE (in lieu of PERFORMANCE/SECURITY DEPOSIT)**

In consideration of the Bharat Heavy Electricals Limited (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, Asiad, New Delhi – 110049 through its Unit at Bharat Heavy Electricals Limited, Power Sector Eastern Region, BHEL Bhawan, Plot No 9/1, DJ Block, Sector-II, Salt lake City, Kolkata – 700091 having agreed to exempt (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ¹ (hereinafter called the said Contractor which term includes supplier), from demand under the terms and conditions of the Contract reference No. _____ ² dated _____ ² valued at Rs. ² (Rupees -----) ² for <Nature of the Work> ³ (hereinafter called the said Contract) of Security Deposit for the due fulfilment by the said contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. _____ ⁴ (Rupees _____ only), we _____ (indicate the name and address of the Bank) having its Head Office at _____ (address of the head Office) (hereinafter referred to as the Bank) at the request of _____ [Name of Contractor(s)] do hereby undertake to pay to the Employer an amount not exceeding Rs. _____ in the event of any breach by the said Contractor(s) of any of the terms and conditions contained in the said Contract.

We, _____ (indicate the name of the Bank), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Employer. 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 Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto 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 Contractor(s) shall have no claim against us for making such payment. We, 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 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 claim satisfied or discharged or till _____ ⁵ or till the office/Department/Division of Bharat Heavy Electricals Limited certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) and also including the satisfactory performance of the equipment during guarantee period and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____ ⁶, (3 months more than the present date of validity of Bank Guarantee) we shall be discharged from all the liability under this guarantee thereafter.

We, _____ (indicate the name of the 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 contractor(s) 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 contractor(s) 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 any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s)

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.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

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.....⁷
- b) This Guarantee shall be valid up to⁸
- c) Unless the Bank is served a written claim or demand on or before⁹ (3 months more than the present date of validity of Bank Guarantee) 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.

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

Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts of at Kolkata only.

Date _____ Day of _____

for _____ (indicate the name of the Bank)

(Signature of Authorised signatory)

¹ NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

² DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

³ PROJECT/SUPPLY DETAILS

⁴ BG AMOUNT IN FIGURES AND WORDS

⁵ VALIDITY DATE

⁶ DATE OF EXPIRY OF CLAIM PERIOD

⁷ BG AMOUNT IN FIGURES AND WORDS.

⁸ VALIDITY DATE

⁹ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

2. 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

(BHEL's Consortium Bank). 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). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

F-05**BANK GUARANTEE FOR PERFORMANCE SECURITY**

Bank Guarantee No:

Date:

To

NAME & ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited (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, Asiad, New Delhi – 110049 through its Unit at Bharat Heavy Electricals Limited, Power Sector Eastern Region, BHEL Bhawan, Plot No 9/1, DJ Block, Sector-II, Salt lake City, Kolkata – 700091 having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____¹ hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated² valued at Rs.....² (Rupees -----)for <Nature of Work>³ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

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 a maximum amount Rs ----- (Rupees -----)⁴ without any demur, immediately on a demand from the Employer, .

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 Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto 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 thereunder and the contractors/supplier shall have no claim against us for making such payment.

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 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.

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 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 Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said 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.

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 Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁵ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the 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.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁶ (3 months more than the present date of validity of Bank Guarantee) we shall be discharged from all liabilities under this guarantee thereafter.

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:

- d) The liability of the Bank under this Guarantee shall not exceed.....⁷
- e) This Guarantee shall be valid up to⁸
- f) Unless the Bank is served a written claim or demand on or before⁹ (3 months more than the present date of validity of Bank Guarantee) 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.

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.

Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts of at Kolkata only.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

² DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

³ PROJECT/SUPPLY DETAILS

⁴ BG AMOUNT IN FIGURES AND WORDS

⁵ VALIDITY DATE

⁶ DATE OF EXPIRY OF CLAIM PERIOD

⁷ BG AMOUNT IN FIGURES AND WORDS.

⁸ VALIDITY DATE

⁹ DATE OF EXPIRY OF CLAIM PERIOD

Note:

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय) POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091 फैक्स/Fax: (033) 23211960 फोन/Phone: बोर्ड/EPABX: 23398220	Page - 57 of 61
---	-----------------

- i) Units are advised that expiry of claim period may be kept 2/3 months after validity date.
- ii) In Case of Bank Guarantees submitted by Foreign Vendors-
- c. 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.
- d. 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 (BHEL's Consortium Bank). 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). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
- b.4 The BG should clearly specify that the demand or other document can be presented in electronic form.

State wise GST Registration nos. of BHEL		
Sl. No.	State / UT	GST Reg. No.
1	Andhra Pradesh	37AAACB4146P7Z8
2	Assam	18AAACB4146P1ZE
3	Bihar	10AAACB4146P1ZU
4	Chandigarh	04AAACB4146P1ZN
5	Chattishgarh	22AAACB4146P1ZP
6	Daman & Diu	25AAACB4146P1ZJ
7	Delhi	07AAACB4146P1ZH
8	Gujarat	24AAACB4146P1ZL
9	Haryana	06AAACB4146P1ZJ
10	HP	02AAACB4146P1ZR
11	Jharkhand	20AAACB4146P5ZP
12	Karnataka	29AAACB4146P1ZB
13	Kerala	32AAACB4146P1ZO
14	Maharashtra	27AAACB4146P1ZF
15	MP	23AAACB4146P1ZN
16	Punjab	03AAACB4146P2ZO
17	Rajasthan	08AAACB4146P1ZF
18	Tamil Nadu	33AAACB4146P2ZL
19	Telangana	36AAACB4146P1ZG
20	Tripura	16AAACB4146P1ZI
21	UP	09AAACB4146P2ZC
22	Uttarakhand	05AAACB4146P1ZL
23	West Bengal	19AAACB4146P1ZC
24	Mizoram	15AAACB4146P1ZK
25	Orissa	21AAACB4146P1ZR
26	Arunachal Pradesh	12AAACB4146P1ZQ

LIST OF CONSORTIUM BANKS FOR BANK GUARANTEE

List of Consortium Banks *			
Nationalised Banks		Nationalised Banks	
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank	Public Sector Banks	
3	Bank of Baroda	20	IDBI
4	Canara Bank	Foreign banks	
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank	Private banks	
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

BHEL-PSER RTGS DETAILS

Form for getting payment through RTGS (Real Time Gross Settlement)

01. Name of Vendor **BHARAT HEAVY ELECTRICALS LTD.**
 02. Address **~~BHEL~~ BHEL HOUSE, SIRI FORT, N.DELHI**
 03. Vendors Bank A/c Name **BHARAT HEAVY ELECTRICALS LTD.**
 04. Vendors Bank A/c No. **11107800029**
 05. Name of Bank **STATE BANK OF INDIA**
 06. Name of Branch **COMMERCIAL BR., SALT LAKE, SECTOR-V**
 07. Branch Phone No. **KOLKATA**
 08. City **033-23575666**
 09. IFSC Code of the Branch **KOLKATA**
SBIN 0004289

The charges if any for payment through RTGS may be recovered from the Bill submitted by us.

Signature of Authorised
के. के. कोआरी / K. K. Coari
 Representative of Vendor
 उप महाप्रबंधक (वित्त) / Dy. General Manager (Fin)
 बी. एच. ई. एल. : पो.एस.ई.आर : कोलकाता - 700 091
BHEL:PSER / Kolkata-700 091

Confirmation by Banker
 with office seal

Note : Incorrect information will create Accounting complications and payment will be delayed