

SPECIAL TERMS & CONDITIONS FOR SUPPLY OF 220KV GIS- IOCL PANIPAT PROJECT

Enquiry No & Date:

1. In case any discrepancy between the requirements mentioned under special terms & conditions and general terms & conditions, special terms and conditions shall prevail.

2. For any technical clarification, kindly contact **MR. D K SHUKLA, MGR /VIVEK KAPIL, SR. DGM (TBEM)**

BHEL, Transmission Business Group

Tower-A, 5th Floor, Advant Navis IT Business Park

Plot-7, Sector-142, Expressway Noida, Noida-201305, UP, India

Phone: +91 (0) 0120- 6748533/8531.

Fax: +91 (0) 0120 – 6748580.

E-mail: dkshukla@bhel.in/viviek@bhel.in

3. For any commercial clarification, kindly contact **MR. Rajeev Kumar Roy, Manager (TBMM);**

BHEL, Transmission Business Group

Tower-A, 5th Floor, Advant Navis IT Business Park

Plot-7, Sector-142, Expressway Noida, Noida-201305, UP, India

Phone: +91 (0) 0120- 6748484

Fax: +91 (0) 0120 – 6748580.

Contact No. 0120 6748484; E-mail: rajeevroy@bhel.in

4. **Bidder to submit offer directly to TENDER BOX or email to tenderbox@bhel.in.** Bidder may visit <https://bhel.com>. No other mode for submission of tender is acceptable. Address is

TENDER BOX

BHEL, TRANSMISSION BUSINESS GROUP

TOWER-A, 5TH FLOOR, ADVANT NAVIS IT BUSINESS PARK

PLOT-7, SECTOR-142, EXPRESSWAY NOIDA, NOIDA-201305, UP, INDIA

5. **PROPOSED DELIVERY PLAN: FEB & MARCH 2021.** However, vendor has to examine their best possible delivery plan & mention in **ACTIVITY SCHEDULE** to meet the tender delivery requirement. In case, BHEL's delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL's delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s).

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6. **Permissible Technical & Commercial Deviations:** No permissible technical & commercial deviation has been envisaged. Bidder strictly to follow the same otherwise offer is liable for rejection.
7. **Quantity Variation:** The final quantity may vary at contract stage by $\pm 20\%$ of total contract value.
8. **PRE-QUALIFYING REQUIREMENT:** Bidder must be comply the following else offer is liable for rejection.
- Technical PQR, which is mentioned in BHEL's technical specification.
 - Financial PQR as under;

Bidder should have a minimum average audited annual turnover / Sales Value of **INR 2500 LAKHS** for last three financial years (2016-17, 2017-18 & 2018-19) and should submit audited balance sheet and Profit & Loss Account Sheet of these years and should declare with supporting documents including audited balance sheet and P & L account. In case of foreign bidder:

In case audited balance sheets and Profit and loss Accounts for above referred three financial years is not available, Balance Sheets and Profit and Loss Account Accounts for three years ending in Calendar years 2016, 2017, 2018 may be considered acceptable. In case audited Balance Sheets & Profit & Loss Accounts, are in language other than English, Certified translated copy in English Language should also be furnished

Further in case certified copies of audited Balance sheets and Profit and loss Accounts are not available, Figures of Turnover/Sales value as mentioned in reports from D & B (Dun and Brad Street) or Credit reform may also be considered acceptable by BHEL. In such a case, bidder to furnish copy of Report from (Dun and Brad Street) or Credit reform, as the case may be

Note :

- (1). Bidder must submit all supporting documents along with their offer.

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(2). All documents (including third party documents/supporting documents) in language other than English, certified translated copy in English language should also be furnished.

(3) Offers will be scrutinized based on the qualifying requirements and only those who are technically and financially capable to execute the job and who fulfil the prequalifying requirements (PQR) are eligible to quote against above NIT. However, final acceptance of the bidder/offer shall be subject to acceptance of our customer.

9. IMPORTANT INSTRUCTION TO BIDDER - I;

- a. **PRE-BID MEETING:** Allowed. Bidder must ensure to fix the pre-bid meeting in advance.
- b. **PROJECT STATUS: Domestic: Custom duty Benefit:** No tax benefit.
- c. **CUSTOMER APPROVAL:**
 - Bidder should be approved in IOCL and approved bidder to submit their approval letter of IOCL, if any,
 - Bidder who are not approved in IOCL, needs to be submitted complete credential along with techno-commercial bid for approval from IOCL & placement of order is subject to approval of IOCL.
 - Final acceptance of technical qualified vendor for placement of order is subject to approval of IOCL. Price bid opening of offers is also subject to vendor approval from IOCL.
- d. **PLACEMENT OF ORDER:** PO/LOI shall be placed to L1 bidder on Ex-works basis for indigenous supplier / CIF (CHENNAI PORT) in case of foreign supplier. However, evaluation shall be done based on overall quantity as per NIT. Total cost for this purpose shall include cost of scope of work as mentioned in NIT along with applicable taxes & duties, and other services etc. (if applicable). GST input credit available to BHEL shall be reduced from prices while determining L1 status.
- e. **INLAND FREIGHT & INSURANCE:** Indigenous supplier must ensure availability of their authorized person at site/store during for supervision of unloading for every LOTS. The Freight & Insurance to be paid by vendor on behalf of BHEL to be re-imbursed. Proof of transit insurance should be submitted along with dispatch documents.

Note: Transit Insurance policy shall be in Bidder's scope and that should also have a provision of 30 days extended cover at site/ store. In case of foreign bidder, Inland freight and insurance charges will be loaded as per NIT to arrive total cost to BHEL or may quote their best prices. **Place of store is IOCL Panipat, Haryana.**

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- f. **PORT OF DISCHARGE:** In case of foreign bidder Port of discharge shall be **CHENNAI PORT**.
 - g. **MQP Requirement:** As per specification.
 - h. **TAXES AND DUTIES (In case of foreign bidder):**
 - a) **CUSTOM DUTY:** In scope of BHEL. For purpose of evaluation, the duty shall be loaded in their offer to arrive total cost to BHEL and same shall be informed to all qualified bidders before price bid opening.
 - b) Loading of custom clearance & handling charges: As per clause no 18 of GTC.
 - c) Loading of freight & Insurance from discharge port to BHEL site: As per clause no 18 of GTC.
 - d) In case training/ Type Test is conducted outside India, all taxes and duties outside INDIA shall be in scope of bidder and deemed to be included in their quoted prices.

10. IMPORTANT INSTRUCTION TO BIDDER - II;

- a. Sea worthy packing is applicable in case of imported goods. Packing as per specification is applicable in case of Indigenous supplier. However, bidder to ensure proper packing to avoid any damage & packing of spares should be separated.
- b. In case of foreign bidder, shipment must be done in COC containers & bidder must be informed the **free time detention period at least 42 days**, Packing list (Draft), Types of containers (**estimated quantity of COC containers & its types**), name of liner before 90 days from the date of dispatch/shipment.
- c. Validity of PERFORMANCE BG –It should cover the guarantee period.
- d. BHEL /Customer or both may witness the inspection as per approved QAP
- e. The unit prices of addition/ deletion and type test charges (if applicable), as mentioned in BOQ of section-1 of technical specification shall be considered for evaluation.
- f. In case due date has been extended, date of opening of submitted offer shall be considered for purpose of evaluation.
- g. Order shall be awarded on CIF basis in case of foreign bidder and on ex- works basis in case of indigenous bidder.
- h. Foreign bidder to quote up to CIF. Supplier to ensure availability of their authorized person at site/store for supervision during unloading at site for every LOTS.
- i. Unloading of material at site is not in scope of bidder.
- j. Validity of offer: 180 days from the date of submission of offer i.e. opening date of techno-commercial bid (Part-I).

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11. **DEFECT LIABILITY (GUARANTEE SPECIFIC CLAUSE):** The primary defect liability period for complete works /Units (s) shall be 12 months from the date of issue of commissioning certificate or 8000 Hrs of run, whichever is earlier, provided that if the unit (s) cannot be commissioned for a cause solely attributable to the OWNER within 12 months from the mechanical completion, the primary defect liability shall be 18 months from the date of mechanical completion. **The date of commissioning is 20-01-2022.**

12. **Clause No 07 of GTC (PERFORMANCE BG): Option-B is applicable** in case not opt any option as per NIT condition, however validity of PERFORMANCE BG will cover the defect liability period or last date of supply with extra 3 month claim over and above, whichever is later.

13. **PRICE BID FORMAT:** Bidder to quote their best prices in BHEL's prescribed format of NIT, otherwise their offer shall be liable to be rejected. Bidder has to mention "quoted" (in each applicable cell) in UN-PRICED BID. In case that cell is Not Applicable, "NA" must be mentioned in that particular cell. Prices shall be mentioned in Price bid schedule only.

14. **Clause No. 2.1 of general Terms & Conditions for tender Enquiry / Contract should be as follows:**

PRICES: A. all prices shall be FIRM. No enhancement of rate for whatsoever reasons unless and until asked by BHEL shall be allowed.

PROJECT STATUS: Domestic in nature. GST is applicable as per prevalent law.

15. **TERMS OF PAYMENT: (i) clause no 3.1 to 3.5- of GTC are not applicable in this NIT (ii) Following clause shall be applicable in place of existing clause no 3.2,3.5 of GTC;**

3.2 For supply & supervision works in scope of the supplier;

A. IN CASE OF INDIGENOUS BIDDER:

90% of ex-works along with 100% value of GST & 100% F & I Charges payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:

- LR / GR duly endorsed by BHEL Site Official.

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- Material Receipt Certificate issued by BHEL Site Official.
- GST Compliant Tax Invoice
- Packing List (Case-wise)
- Copy of Transit Insurance Certificate from underwriters.
- Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management
- Guarantee Certificate
- Copy of Performance Bank Guarantee (PBG)
- Certificate of acceptance of Type Test Reports issued by BHEL Engineering management wherever specifically mentioned in the Purchase Order.

B. IN CASE OF FOREIGN BIDDER: 90% of payment of total invoice value (CIF value) within 90 days from the date of receipt of complete invoice along with documents in 3 sets (original+ 2 copies) -as follows):

- Invoice,
- Bill of Lading.
- Delivery Challan (If applicable) or Packing list (case wise).
- Certificate of Origin.
- Transit insurance certificate from under writers or copy of intimation of Transit insurance duly endorsed by under writers (if applicable)
- MICC (Material inspection clearance certificate) given by BHEL.
- Guarantee Certificate.
- - Copy of Performance Bank Guarantee (PBG).

C. INDIGENOUS BIDDER & FOREIGN BIDDER: 05% of ex-works /CIF value payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:

- Certificate of successful completion of Supervision of Erection, Testing & Commissioning at Site issued by BHEL Site Official / Construction Management.
- Certificate of successful completion of HV test at Site issued by BHEL Site Official / Construction Management.

Note: In case of conduction of HV test gets delayed beyond 12 months from the date of last supply for the reasons not attributable to supplier, supplier may claim this payment (5% of payment of supply) by furnishing following documents

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- e) Invoice
- f) Certificate issued jointly by BHEL site in charge and BHEL TBCM Project manager. Confirming that delay in conducting HV test is not attributable to supplier (to be arranged by BHEL TBG)
- g) Copy of Bank Guarantee of equivalent value initially valid for 6 months from the date of submission of invoice with additional claim period of three months. In case HV test is not successfully completed before expiry of Bank Guarantee, BG shall be kept suitably extended till successful completion of HV test.

D. INDIGENOUS BIDDER & FOREIGN BIDDER: 05% of ex-works value/CIF value payment of total invoice value against completion of final engineering documentation and completion of supervision activity within 60 days from date of receipt of invoice. Documents (original + 2 copies) will be required for payment.

- Invoice.
- Final engineering documentation certificate by BHEL Engg group
- Successful completion certificate of supervision of ETC at site issued by BHEL site.
- Copy of valid PBG

3.5 For Charges for Supervision of Erection, Testing & Commissioning at Site:

100% payment along with applicable GST within 60 days from the date of receipt of complete GST compliant Tax invoice along with certificate of successful completion of Supervision of Erection, Testing & Commissioning & HV test at Site issued by BHEL Site Official / Construction Management in 3 sets (Original + 2 copies).

16. **MODE OF PAYMENT:** The following clause shall be applicable in place of clause no 41 of general terms and conditions

- (i) Payment shall be made directly to the supplier/contractor by BHEL through NEFT/RTGS.
- (ii) Foreign bidders can opt for payment (less agency commission, if applicable) through irrevocable and unconfirmed letter of credit, payable within 120 days (usance period) from the date of submission of documents as per terms of payments mentioned in STC for foreign bidders.

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In case BHEL considers any deviation in payment terms i.e. early payment based on vendor's request, then bids shall be evaluated with loading of State bank of India Base rate plus 6%, for the credit period short of 120 days. The LC shall be established prior to shipment date, valid for period of 150 days, unless agreed otherwise.

All bank charges/LC opening charges are in beneficiary's account. Period of presentation of documents in BHEL bank is 7 to 10 working days from the date of shipment.

17. **Promotion of MAKE IN INDIA:** For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Preference to Make in India will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following link:

http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf

http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf

For this procurement, Public Procurement (Preference to Make in India) Order, 2017" dated 15/06/2017 & 28/05/2018 and subsequent orders issued by respective nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract /PO/WO against this NIT.

In the event of any nodal ministry prescribing higher and lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.

Note: Bidder to submit declaration of local content in BHEL FORMAT duly filled & signed and stamped by their authorized persons. It is mandatory against this NIT. Minimum Local content is 64% (being scope is in GIS sub-station Package).

18. **INTIGRITY PACT: INTEGRITY PACT (Refer clause no- 34 of GTC):** Bidders shall have to enter into Integrity Pact with BHEL, duly signed with seal in original as per **ANNEXURE - I** of NIT / RFQ failing which bidder's offer shall be liable for rejection.

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The Integrity Pact shall be issued as part of the bidding documents and shall be returned by the bidder along with the techno-commercial bid, duly signed by the authorized official of the bidder/ vendor/ contractor and authorized official of BHEL will form part of the Purchase order/ contract. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words entering into this pact would be a preliminary qualification.

Name of Independent External monitor to be considered (IEM):

S N	IEM	Address	Email
1.	Shri Arun Chandra Verma, IPS (Retd.)	Flat No. C -1204, C Tower, Amrapali, Platinum Complex, Sector 119, Noida (U.P.)	acverma1@gmail.com
2.	Shri Virendra Bahadur Singh, IPS (Retd.)	H. No. B-5/64, Vineet Khand, Gomti Nagar, Lucknow - 226010	vbsinghips@gmail.com

19. **Clause No. 33 for Reverse Auction of NIT shall be as follows:**

"BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer.

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The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com)."

As a reminder to the bidders, system will flash following message (in RED Color) during the course of 'online sealed bid': *"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL.*

In addition to above RA guidelines, bidder note that

(A) In case where RA is conducted successfully Reverse auction shall be conducted as per existing procedure of BHEL. Ranking of bids shall be based on final price fed by respective bidder (including H1 bidder) in reverse auction process. If L1 bid is from a 'Local Supplier', L-1 bidder may be considered for further award of work. No other Bidder shall be invited to match price of L-1 Bidder

If L1 bid is not from a 'Local Supplier', the lowest evaluated bidder among the 'Local Suppliers' based on the ranking of the price after RA, will be invited to match the L1 price provided 'Local Supplier's price is within the Margin of Purchase Preference i.e. +20% of L1 price. In case such local supplier agrees to match the price of L-1 Bidder, such local supplier may be considered for further award of work. In case such lowest eligible 'Local Supplier' fails to match the L1 price, the eligible 'Local Supplier' with the next higher bid within the Margin of Purchase Preference (i.e 20% of L-1 Price) as above shall be invited to match the L1 price, and so on, and may be considered for award of work accordingly. In case none of the 'Local Suppliers' within the Margin of Purchase Preference (i.e 20% of L-1 price) matches the L1 price, then the L1 bidder may be considered for award of work.

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(B) In case where RA is failed

Price bid shall be opened as per reverse auction procedure of BHEL and based on the same make in India policy shall be implemented.

Note: In case RA guideline changes then the same shall be informed to bidder in advance and bidder is bond to accept the BHEL new RA guideline, if any.

20. INDEMNITY (AGAINST PATENTS / TRADEMARKS ETC):

The vendor shall at all times indemnify the purchaser against all claims which may be made in respect of supply from any "rights protected" source protected by way of patent registration of design or trade mark. In the event of any claim in respect of an alleged breach of patents registered design or trademark being made against the purchaser, purchaser shall notify the seller of the same and the seller shall be at liberty, but entirely at their own expenses, to conduct negotiation for settlement or deal with any litigation that may arise there from.

21. INVOLVEMENT OF REPRESENTATIVE:

Bidder must be GIS manufacturer. Purchase Orders will be placed on successful bidder directly for total supplies and services subject to prior approval by BHEL/end Customer. However in case of foreign bidders, engagement of their foreign counterpart/ Indian representative may be permitted for execution of Services Portion (for services in INDIA only) subject to prior approval by BHEL/end Customer.

In a tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can submit bid but both cannot submit bid simultaneously for the same item/product in the same tender.

If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

22. ADDITIONAL /EXTRA ITEM REQUIRED AT SITE DUE TO DAMAGE REPORTED AT SITE/ THEFT FOR COMPLETION OF PROJECT:

In case of additional requirement of any item specified in BOQ, whether due to damages / theft or any other reason, during contract (i.e. till expiry of contract i.e end of guarantee period),

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contractor shall ensure supply of same at unit Price mentioned in purchase order main BOQ (supply and service portion) or BOQ for addition /deletion (if any).

23. **HEALTH, SAFETY AND ENVIRONMENT (HSE) OF BHEL:** BHEL has their own Health, safety and environment. HSE policy is enclosed for bidder's reference.

24. Following confirmation to be provided by vendor:

“We confirm that we have quoted as per specified price format provided along with this tender”.

Note: BHEL reserves the right to cancel this enquiry at any point of time. Bids of only customer approved vendors will be processed.

NAME & SEAL OF TENDERER

Enclosed:

- a) Activity Schedule, commercial & technical deviation.
- b) Format for declaration of minimum local content
- c) Format of Integrity pact (Annexure-I).
- d) Format of Performance BG.
- e) Copy of HSE policy.
- f) Details of Packing list (Annexure-II).
- g) GENERAL TERMS AND CONDITION OF NIT.
- h) BHEL'S PRICE BID FORMATS.

ACTIVITY SCHEDULE (Lot-01 to 06)

ENQUIRY NO:....., Dated.....

SN	ACTIVITY	TIME ALLOTTED [in weeks]	CUMULATIVE TIME FROM RECEIPT OF INPUTS FROM BHEL [in weeks]	SCOPE
1.	Kick of meeting.	2	2	IN SCOPE OF SUPPLIER
2	Inputs to vendor from BHEL (Last inputs).	2	4	IN SCOPE OF BHEL
3.	Submission of Documents necessary for getting manufacturing clearance. [Lot-1 to Lot-6] refer section-1 of technical specification. Last input to vendor of respective LOT as defined.	4	8	IN SCOPE OF SUPPLIER
4.	Review and Approval of documents from BHEL/Customer and issue of manufacturing clearance lot wise as defined.	4	12	IN SCOPE OF BHEL
5.	Manufacturing time for individual lots.	20	32	IN SCOPE OF SUPPLIER
6.	Inspection call	1	33	IN SCOPE OF SUPPLIER
7.	Inspection by BHEL/Customer	1	34	IN SCOPE OF BHEL
8.	Issue of Dispatch clearance	1	35	IN SCOPE OF BHEL
9.	Dispatch	1	38	IN SCOPE OF SUPPLIER
10.	Supervision of ETC works	12	50	AS PER REQUIREMENT AT SITE

1. Inspection call to be issued 2 weeks in advance. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.
2. Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier. Bidder to submit revised drawing and documents within 2 weeks from the date of comments of BHEL/Customer.
3. Qty to be offered for inspection should be in accordance within Delivery-schedule. BHEL reserves the right not to entertain multiple inspection calls for a Delivery and delay on this account shall be the responsibility of Supplier.
5. Delay in activity pertaining to BHEL not attributable to vendor as listed above shall be added, if required in time extension case and will be re-fixed accordingly based on delay analysis.
6. Delay delivery/LD clause is applicable only for main GIS (Item No-A of BOQ) only & not applicable for supplies of mandatory spares, maintenance equipment, tools and tackles & testing equipment, however bidder to ensure completion of supply & supervision in time to meet project requirement. Defect liability period & validity of PBG will be considered from the last date of supplies against the PO/LOI.

**Signature & Seal of
Supplier
Date:**

SCHEDULE OF COMMERCIAL DEVIATION

This Format is to be submitted in original duly signed by bidder.
The following are the deviations/variations/exceptions from the Terms and Conditions :-

S N	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the Terms and Conditions.

If there is NIL deviation,even then the format to be filled as NIL DEVIATION.

Note : Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

Place :
Date :

Signature of the authorised representative of

Bidder's name :.....
Designation:.....
Company Seal:.....

SCHEDULE OF TECHNICAL DEVIATION

This Format is to be submitted in original duly signed by bidder.
The following are the deviations/variations/exceptions from the Terms and Conditions :-

S N	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the Terms and Conditions.

If there is NIL deviation,even then the format to be filled as NIL DEVIATION.

Note : Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

Place :
Date :

Signature of the authorised representative of

Bidder's name :.....
Designation:.....
Company Seal:.....

Item Name :	220kV GIS
Enquiry No. :	
Project :	IOCL PANIPAT PROJECT
Type of project	Transmission / Thermal (Coal or Gas) / Hydro
Applicable percentage of Local Content	64% (Minimum)

Certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of Local Content, in line with PPP-MII order, if applicable [to be submitted on the letter head of the issuer.]

Dear Sir,

We have read and understood the provisions of “Public Procurement (Preference to Make in India) Order, 2017” dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications / Amendments, if any [hereinafter, “PPP-MII Order”] issued by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.

In line with the provisions of the PPP-MII Order, M/s.[Enter the name of the Bidder] [hereinafter, “Local Supplier”] have submitted an Affidavit of self-certification to M/s. Bharat Heavy Electricals Limited [hereinafter, BHEL] regarding Local Content in Goods/Services/Works to be supplied by the Local Supplier for (Enter the name of the Equipment/Item for Project).], wherein they have agreed to abide by the terms and conditions of the PPP-MII Order.

Further, in line with the PPP-MII Order, the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) shall provide a certificate giving the percentage of Local Content in the Goods/Service/Works to be supplied by the Local Supplier for (Enter the name of the Equipment/Item for Project).

Accordingly, we, the Statutory Auditor(s) / Cost auditor (applicable in the case of companies) of the Local Supplier / a practicing cost accountant or practicing chartered accountant (applicable in respect of suppliers other than companies), certify that the Local Content as defined under the PPP-MII, in the Goods/Service/Works to be supplied by the Local Supplier for (Enter the name of the Equipment/Item for Project). is percentage [specify the percentage of Local content].

For and on behalf of,

Date:

Authorised persons

Firm Reg No:

Membership No.

Note: This is a guiding format. In case the bidder submits the certificate in a format different from the above, the same may be considered provided it meets the intent and purpose, as may be ascertained by BHEL.

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions:

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) 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.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to

demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal

(Office Seal)

Place-----

Date-----

Witness:_____

(Name & Address) _____

For & On behalf of the Bidder/

Contractor

(Office Seal)

Witness:_____

(Name & Address) _____

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 ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House Siri Fort New Delhi-110049 through its Unit at BHEL, TBG, Noida having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² 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 PO No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (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 -----) 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.....⁶ 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 the⁷we 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:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before¹⁰ 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.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

Note:

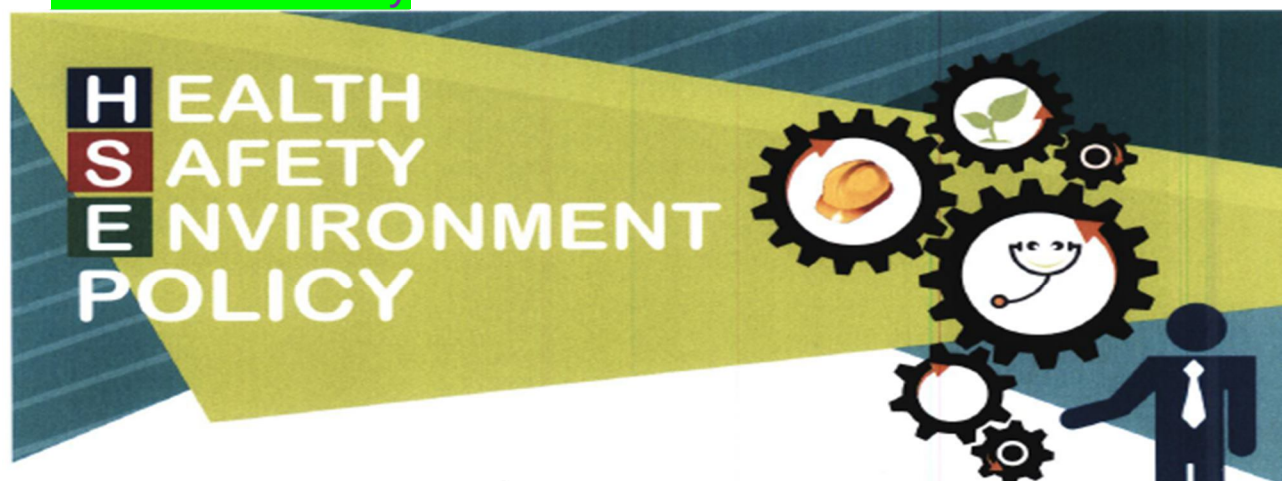
1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.

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.

	Transmission Business Group HSE Department, HQ, Noida	
	HSE Policy	

1. BHEL HSE Policy



In BHEL, Health, Safety and Environment (HSE) responsibilities are driven by our commitment to protect our employees and people we work with, community and environment. BHEL believes in zero tolerance for unsafe work/non-conformance to safety and in minimizing environmental footprint associated with all its business activities. We commit to continually improve our HSE performance by:

- Developing safety and sustainability culture through active leadership and by ensuring availability of required resources.
- Ensuring compliance with applicable legislation, regulations and BHEL systems.
- Taking up activities for conservation of resources and adopting sound waste management by following Reduce/Recycle/Reuse approach.
- Continually identifying, assessing and managing environmental impacts and Occupational Health & Safety risks of all activities, products and services adopting approach based on elimination/ substitution/reduction/control.
- Incorporating appropriate Occupational Health, Safety and Environment criteria into business decisions, design of products & systems and for selection of plants, technologies and services.
- Imparting appropriate structured training to all persons at workplace and promoting awareness amongst customers, contractors and suppliers on HSE issues.
- Reviewing periodically this policy and HSE Management Systems to ensure its relevance, appropriateness and effectiveness.
- Communicating this policy within BHEL and making it available to interested parties.

June 5, 2018



Atul Sobti
Chairman & Managing Director

Creating  of tomorrow

ANNEXURE-II

Project: IOCL PANIPAT PROJECT

Vendor:

Enquiry No:

DETAILS OF PACKAGES

S. N.	<i>Discriptions</i>	<i>ESTIMATED QUANTITY</i>
<u>1</u>	NO OF PACKAGES/CASES	
<u>2</u>	SIZE (MAXIMUM & MINIMUM)	
<u>3</u>	WEIGHT	
<u>4</u>	NOS OF COC CONTAINERS (TYPES & QTY), IF ANY	

Note:

1. The above is required only to facilitate the store at site.
2. Bidder to submit standard storage instruction along with offer.

**BHARAT HEAVY ELECTRICALS LTD.
(TRANSMISSION BUSINESS GROUP)**

GENERAL TERMS AND CONDITIONS FOR TENDER ENQUIRY / CONTRACT

This is to be submitted duly signed by bidder in original (NOT REQUIRED FOR ENQUIRY THROUGH E-PROCUREMENT MODE). Clause-wise deviations and / or additional conditions / clarifications, if any, are to be brought out clearly in “Schedule of Commercial Deviation”. Deviations and / or additional conditions / clarifications, if any, mentioned elsewhere in the bid / offer, shall not be considered.

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1.	INSTRUCTION TO BIDDERS : 1.1 Sealed bids are invited for the items mentioned in the tender enquiry conforming to the NIT including Technical Specifications. Bids should be typed and free from overwriting and erasures. Corrections or additions / deletions, if any, must be clearly written and attested, otherwise offer may be rejected. 1.2 Bidder must ensure that their bid is submitted / dropped in the tender box on or before 14-00 Hrs. IST on the due date of opening, unless otherwise specified in the NIT, at the address as follows :- Tender Box, Materials Management, Transmission Business Group, Bharat Heavy Electricals Limited, 5th Floor, Tower-A, Advant Navis IT Business Park, Plot-7, Sector-142, Noida Expressway, Noida, Dist. G. B. Nagar, U. P. – 201305 1.3 In case tender enquiry is floated through the e-procurement system, offer / bid has to be submitted through the e-procurement system ONLY as per instructions given in the e-procurement portal (https://bhel.abcprocure.com/EPROC/). 1.4 The bids shall be opened at 14-30 Hrs. IST on the due date of opening, in the presence of participating bidders who may like to be present, unless otherwise specified in the NIT. Bids received late are liable for rejection. Bidders sending bids by courier or post will have to ensure that it is timely delivered at the above address. 1.5 Bids are to be submitted duly signed with seal in two parts :- a) Techno-commercial Bid (Part-I) – To be submitted in 2 sets (original + copy). A copy of Price Bid (Part-II) clearly mentioning all the necessary information as per format without prices “Un-Priced Bid” is also to be enclosed in Part-I Bid. b) Price Bid (Part-II) – To be submitted only in one set in a separate sealed envelope. This should not contain any Technical and / or Commercial Terms and Conditions. The rates should be quoted both in figures and words.

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	1.6 The Part-I and Part-II Bids are to be sealed in separate envelopes and marked as “Techno-commercial Bid (Part-I)” and “Price Bid (Part-II)” respectively. Both the envelopes are to be kept in another common envelope and marked as “BID”. Each envelope should be sealed and superscribed with tender enquiry no., item / package name, project name and due date of opening. Bidder’s name and address shall also be mentioned on each envelope. 1.7 For any technical clarification, please contact official mentioned in the tender enquiry / NIT. 1.8 For any commercial clarification please contact official issuing tender enquiry / NIT. 1.9 Price bid (Part-II) should not contain any additional information / description other than given in “Un-Priced Bid” submitted with “Techno-commercial Bid (Part-I)” except prices, otherwise bid is liable for rejection. 1.10 Price Bid submitted along with the bid shall remain valid up to validity of offer. Any discount / revised offer submitted by the bidder on its own shall be accepted provided it is received before the due date and time of offer submission (i.e. Part-I Bid). The discount shall be applied on pro-rata basis to all items including optional items, if any, unless specified otherwise by the bidder. Discount offered shall be valid for full duration of validity of the offer including extension of validity, if any. Unsolicited Supplementary / Revised Price Bid submitted after the due date and time of offer submission (i.e. Part-I Bid), during validity period of offer, unless asked by BHEL, shall not be considered. Withdrawal of quotation by the bidder, at any stage after its opening, may entail suitable action against such bidder by BHEL. 1.11 The consultants / firm (and any of its affiliates) shall not be eligible to participate against tender enquiry for the related goods or works or services for the same project, if they were engaged by BHEL-TBG for the consultancy services. 1.12 In case any Foreign OEM / Foreign Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and the agent, bid received from the agent shall be ignored. 1.13 Non-conformities / errors / discrepancies in quoted prices in price bids shall be dealt as follows :- a) If, in the price structure quoted for the required goods / services / works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of BHEL there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly. b) If there is an error in a total corresponding to the addition or subtraction

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	of subtotals, the subtotals shall prevail and the total shall be corrected. c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above. d) If there is such discrepancy in an offer as mentioned in (a), (b) & (c) above, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the BHEL, the bid is liable to be ignored. 1.14 In case the scope of the successful bidder / supplier against this tender enquiry includes Erection, Testing and Commissioning (ETC) of the equipment / material at site in addition to Supply, Purchase Order shall be placed for Supply Portion and Contract shall be separately awarded for ETC at Site Portion. General Terms and Conditions for Tender Enquiry / Contract mentioned herein shall be applicable for both Supply & ETC at Site. Additional Terms and Conditions for Tender Enquiry / Contract for Erection, Testing and Commissioning at Site "BHEL/TBG/GTC-ETC/2016 REV01" shall be applicable for ETC at Site only which is to be read in conjunction with General Terms and Conditions for Tender Enquiry / Contract mentioned herein. However, any breach of either the Purchase Order or the Contract shall be deemed to be breach of the other. 1.15 Taxes and Duties payable extra as per Clause No. 2.3 in NIT, if not specified/quoted clearly as extra shall be considered as included in Ex-works Price and therefore shall not be reimbursed. Taxes and duties not payable extra as per NIT shall be deemed to be included in Ex-works Price. 1.16 If the rates for taxes and duties in respect of the quoted materials and / or services assumed by the Supplier are less than the tariff prevailing at the time of tendering, Supplier will be responsible for such under quotations. However if the rates assumed are higher than the correct rates prevailing at the time tendering, the difference will be to the credit of BHEL. Note : Representative / official deputed by the bidder to witness tender opening must produce authorization letter for the same.
2.	PRICES : 2.1 Unless specifically indicated in the NIT, all prices shall be FIRM. No enhancement of rate for whatsoever reasons unless and until asked by BHEL shall be allowed. 2.2 Unless specifically indicated in the NIT, the prices shall be on INR basis. 2.3 Unless specifically indicated in the NIT, the prices are to be quoted on FOR (Site / Destination) basis excluding GST. The break-up of prices shall be as under :- a) Ex-works Price: Ex-works price including packing & forwarding charges.

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	b) Freight: Freight for door delivery up to destination / site / store are to be quoted separately. c) Insurance: Insurance for door delivery up to destination / site / store are to be quoted separately. d) Type Test Charges: If asked in the technical specification, it is to be quoted separately for each test. e) Charges for Supervision of Erection, Testing & Commissioning (ETC) at Site: To be quoted separately if specified in NIT/Price Schedule. f) Charges for Testing & Commissioning at Site: To be quoted separately if specified in NIT/Price Schedule. g) Charges for Erection, Testing & Commissioning at Site: To be quoted separately if specified in NIT/Price Schedule. h) Training Charges: To be quoted separately if specified in NIT/Price Schedule. 2.4 GST rates along with HSN/SAC code as applicable on Sr No (a) to (h) above is to be mentioned separately in percentage in both un-priced bid and price bid. Note : i) Unless otherwise specified in the NIT, the purchase order shall be placed on Ex-works basis for Indian bidders. ii) Prices quoted by Indian bidders shall be in Indian Rupees only. iii) In case Supervision of Erection, Testing & Commissioning (ETC) at Site or Testing & Commissioning at Site or Erection, Testing & Commissioning at Site is also in scope of the bidder along with supply, bidder has to ensure that prices quoted for such services also are in line with special terms & conditions of the NIT, if any. iv) Unless otherwise specified in the NIT, Unloading at Site / Destination shall not be in the scope of the supplier. v) Prices in respect of Sr No (a) to Sr No (h) of Clause 2.3 above are to be quoted inclusive of all taxes & Duties, charges. Levies, royalty etc. if any, excluding GST.
3.	TERMS OF PAYMENT : 3.1 For Supply only in scope of the supplier 100% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows : • LR / GR duly endorsed by BHEL Site Official. • Material Receipt Certificate issued by BHEL Site Official. • GST Compliant Tax Invoice • Packing List (Case-wise) • Copy of Transit Insurance Certificate from underwriters. • Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management • Guarantee Certificate • Copy of Performance Bank Guarantee (PBG) • Certificate of acceptance of Type Test Reports issued by BHEL Engineering

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	Management wherever specifically mentioned in the Purchase Order. 3.2 For Supply where Supervision of Erection, Testing & Commissioning (ETC) at Site is in scope of the supplier or Supply where Testing & Commissioning at Site is in scope of the supplier a) 95% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows : · LR / GR duly endorsed by BHEL Site Official. · Material Receipt Certificate issued by BHEL Site Official. · GST Compliant Tax Invoice · Packing List (Case-wise) · Copy of Transit Insurance Certificate from underwriters. · Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management · Guarantee Certificate · Copy of Performance Bank Guarantee (PBG) · Certificate of acceptance of Type Test Reports issued by BHEL Engineering Management wherever specifically mentioned in the Purchase Order. b) 5% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows : · Certificate of successful completion of Supervision of Erection, Testing & Commissioning at Site if it is in the scope of the supplier or Certificate of successful completion of Testing & Commissioning at Site if it is in the scope of the supplier. · Certificate of completion of final documentation as per Purchase Order / Technical Specification issued by BHEL Engineering Management 3.3 For Supply where Erection, Testing & Commissioning (ETC) at Site is in scope of the supplier a) 90% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows : · LR / GR duly endorsed by BHEL Site Official. · Material Receipt Certificate issued by BHEL Site Official. · GST Compliant Tax Invoice · Packing List (Case-wise) · Copy of Transit Insurance Certificate from underwriters. · Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management · Guarantee Certificate · Copy of Performance Bank Guarantee (PBG) · Certificate of acceptance of Type Test Reports issued by BHEL Engineering Management wherever specifically mentioned in the Purchase Order b) 10% of payment within 60 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows : · Certificate of successful completion of Erection, Testing & Commissioning at Site issued by BHEL Site Official / Construction Management · Certificate of completion of final documentation as per Purchase Order / Technical Specification issued by BHEL Engineering Management 3.4 For Type Test Charges

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	100% payment along with applicable GST within 60 days from the date of receipt of complete GST compliant Tax invoice along with copy of Certificate of acceptance of Type Test Reports issued by BHEL Engineering Management in 3 sets (original + 2 copies) on completion of delivery (at site, if F&I is in scope of supplier) of main supplies (excluding spares) for which Type Tests are applicable. List of main supplies (excluding spares) for which Type Tests are applicable shall be certified by BHEL Engineering Management. 3.5 For Charges for Supervision of Erection, Testing & Commissioning at Site 100% payment along with applicable GST within 60 days from the date of receipt of complete GST compliant Tax invoice along with certificate of successful completion of Supervision of Erection, Testing & Commissioning at Site issued by BHEL Site Official / Construction Management in 3 sets (Original + 2 copies). 3.6 For Charges for Testing & Commissioning at Site 100% payment along with applicable GST within 60 days from the date of receipt of complete GST compliant Tax invoice along with certificate of successful completion of Testing & Commissioning at Site issued by BHEL Site Official / Construction Management in 3 sets (Original + 2 copies). 3.7 For Training Charges 100% payment along with applicable GST within 60 days from the date of receipt of complete GST compliant Tax invoice along with certificate of completion of training issued by BHEL Engineering Management in 3 sets (original + 2 copies). Note : i) Supplier has to submit invoice(s) as per PO or approved billing break-up of prices (if applicable as per NIT). ii) In case of supplies for overseas project, Material Receipt Certificate issued by BHEL Authorized Representative shall also be acceptable. iii) In case of Transit Insurance under Open Insurance Policy, Intimation / Declaration of Transit Insurance as per terms of the relevant Open Insurance Policy along with copy of Open Insurance Policy from underwriters shall also be acceptable. iv) Supplier has to ensure commencement of transit insurance from the date not later than LR / GR date. v) Supplier has to submit Tax Invoice(s). Supplier should ensure that Tax Invoice should comply all statutory requirements under GST Law to enable BHEL to avail input credit vi) MSMED Act, 2006 and the rules made thereunder as amended from time to time shall be applicable for release of payment to suppliers qualified & registered as Micro & Small Enterprises based on documents mentioned in the NIT for MSME.

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	vii) Supplier has to submit PBG (as per BHEL format) & Guarantee Certificate as per PO terms. viii) In case any shortages and / or damages in supplies, an amount calculated based on comments against Material Receipt Certificate issued by the BHEL Site Official shall be withheld from the supply payment against 3.1(a) or 3.2(a) above to be deemed fit by BHEL subject to a minimum of 10% of the total ex-works value of the invoice corresponding to the LR / GR against which any shortages and / or damages are reported. The withheld amount shall be released after the shortages and / or damages in supplies are supplied / replenished against Certification by BHEL Site Official. ix) Payment of GST component shall be made only if vendor has deposited the Tax and credit for the same is reflected in GSTN (GST Network). In case credit of the same is not reflected in GSTN , vendor may alternatively furnish BG of GST Amount for a period valid for not less than 1 month .In case of disallowance of credit /non reflection of credit in GSTN , amount will be recovered from supplier along with applicable Interest , penalty etc from any of his dues. x) If GST is payable by BHEL on reverse Charge Mechanism basis, vendor should ensure the submission of GST compliant Tax invoice immediately on dispatch/ performance of service. In case of non-compliance any additional charges towards interest , penalty etc , will be to vendors account. xi) TDS under GST Act, if applicable, shall be deducted unless Exemption Certificate If applicable, from the appropriate authority is furnished to BHEL along with Invoice.
4.	INTEREST LIABILITY : In case of any delay in payment due to any reason, BHEL shall not pay any interest on delayed payment. Also, no interest shall be payable by BHEL on the bank guarantee / deposit amount or balance payment or any other money which may become due owing to difference or misunderstanding or any dispute before any quasi judicial authority between BHEL and the Supplier / Contractor.
5.	GUARANTEE : The equipment / material supplied and services rendered (if applicable) shall be guaranteed to be free from all defects and faults in design & engineering, material, workmanship & manufacture and in full conformity with the Purchase Order / Contract, Technical Specifications & approved drawings / data sheets, if any, for 18 months from the date of last delivery or 12 months from the date of commissioning, whichever is earlier. Wherever Erection, Testing & Commissioning at Site are also in the scope of the Supplier, the guarantee period shall be 18 months from the date of last delivery or 12 months from the date of commissioning, whichever is later. The defective equipment / material / component shall be replaced free of cost at site. Freight & Insurance during transit shall also be in the scope of the supplier / contractor. Any expenditure for dismantling and re-erection of the replaced equipment / material / component shall be to supplier's / contractor's account. All replacements during the guarantee period shall be delivered at site promptly and satisfactorily within a period not more than 45 days from the date of reporting the defect / rejection etc.

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	In the event of the supplier / contractor failing to replace the defective equipment / material / component within the time period mentioned above, BHEL may proceed to undertake the replacement of such defective equipment / material / component at the risk and cost of the supplier / contractor without prejudice to any other rights under the contract and recover the same from PBG / other dues of this Purchase Order / Contract or any other Purchase Order / Contract executed by the supplier / contractor. Note : i) In case of Illumination System, items viz. Lamps, Tubes, Ballast, Starters, Capacitors & Fuses will not be under Guarantee after commissioning. ii) In addition to the above guarantee period, Extended Guarantee / Warranty, if any, shall be as per NIT / Technical Specifications. iii) In case offer of agent of Foreign OEM / Foreign Principal is considered, as per Clause No. 1.12 above, Guarantee as mentioned above has to be provided by the Foreign OEM / Foreign Principal also.
6.	LATENT DEFECT : Liability for latent defects shall be for defects inherently lying within material or arising out of design deficiency which does not manifest itself during guarantee period but later and shall be limited to five years from the expiry of the guarantee period.
7.	PERFORMANCE BANK GUARANTEE (PBG) : Supplier shall arrange to submit Performance BG / deposit on a non-judicial stamp paper of appropriate value along with first invoice or within 60 days from placement of Purchase Order (PO) whichever is earlier, in line with one of the applicable options as follows :- <u>Option "A"</u> A single rolling PBG for Rs. 50 Lakhs initially valid for 18 months with claim period of 3 months extra over and above 18 months for all the Purchase Orders being executed for Transmission Business Group, BHEL. However, validity of the PBG shall be extended till 18 months from the date of last delivery with 3 months claim period extra over and above 18 months. Single Rolling PBG option shall not be applicable in case Ex-works value of the PO at the time of placement of PO exceeds Rs. One Crore. <u>Option "B"</u> PBG for 10% of the total Ex-works PO value, valid for 18 months from the date of last delivery with claim period of 3 months extra over and above 18 months. Ex-works PO value at the time of placement of PO shall be considered for calculation of the PBG amount. <u>Option "C"</u> In case the total Ex-works PO value at the time of placement of PO does not exceed Rs. Ten Lakhs, interest free Deposit of 10% of the total Ex-works PO value at the time of placement of PO in form of Demand Draft favouring "Bharat Heavy Electricals Limited" and payable at New Delhi / Delhi / Noida shall also be acceptable to BHEL in lieu of PBG, which shall be released after expiry of 21 months from the date of last delivery after deduction, if any, within 60 days from receipt of invoice in 3 sets (original + 2 copies) to be submitted by the supplier. Note : i) The Bank Guarantee shall be from any bank as per Annexure for List of Banks (32 Nos.). The original PBG should be sent by issuing Bank directly to AGM (Finance), TBG, BHEL, Noida.

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	ii) Extension of validity of the PBG in original, as per above clause, should be sent by issuing Bank directly to AGM (Finance), TBG, BHEL, Noida at least 45 days before expiry of validity of the PBG. iii) Unless otherwise specified in the NIT, deviation taken for non-submission of PBG / Deposit, as applicable, shall not be accepted. iv) Supplier has to confirm one of the applicable options for submission of PBG / Deposit before placement of PO. v) In case of non-submission PBG / Deposit, as applicable, BHEL reserve the right for Risk Purchase as per terms of the NIT and impose Suspension of Business Dealings with the Supplier / Contractor. vi) BHEL reserve the right to encash the Bank Guarantee and forfeit the amount in the event of any default, failure or neglect on part of the Supplier in fulfilment of performance of the Purchase Order. vii) Value of the Bank Guarantee (at the time of submission) shall remain unchanged for any subsequent variations in Purchase Order value up to $\pm 20\%$. Beyond this variation of $\pm 20\%$, the Supplier shall arrange to enhance or may reduce the value of the Bank Guarantee accordingly for the total variation promptly. viii) Vendor to ensure submission of Certificate of Final Documentation /Confirmation regarding Non applicability of Final Documentation, as the case may be, as referred in clause No 9 regarding Final Documentation. BG shall be released only after submission of the same to BHEL TBMM.
8.	SUBMISSION OF DRAWINGS / DOCUMENTS FOR APPROVAL : Supplier shall submit the master document list within 7 days from date of Purchase Order / Contract, unless otherwise specified in the NIT, with planned dates for submission which shall be in line with activity schedule as per Purchase Order / Contract and shall be finalized with BHEL Engineering Management. Date of first submission of drawings / documents shall be certified by BHEL Engineering Management after the receipt of applicable drawings / documents (e.g. project specific cover sheet, GTP, OGA drawings, schemes, type test reports etc.) by BHEL. During detailed engineering stage, necessary hard copies of the engineering drawings / documents shall also be submitted by the supplier as per the Purchase Order / Contract requirement. The supplier shall also submit the packing drawings as per technical specifications. In case item(s) offered require any interface details of other item (not in the scope of supplier & required for operating the equipment), the supplier has to submit interfaces schedule along with submission of engineering drawings / documents. It shall be responsibility of the supplier to get the details of the interfaced item from BHEL before manufacturing to avoid any mismatch at site.
9.	FINAL DOCUMENTATION : Final documentation as called in the Technical /contract specification is to be submitted within 3 months from the date of first delivery of respective equipment, item/material. After submission of Final Documentation, BHEL Engineering Management (TBEM) will issue a Certificate of Completion of Final Documentation. Wherever Final Documentation is not applicable, BHEL Engineering Management (TBEM) will issue confirmation regarding the same, Vendor to submit the Certificate of Final Documentation /Confirmation regarding Non applicability of Final Documentation, as the case may be, to BHEL TBMM. In case of Non Submission of Certificate of Final Documentation /Confirmation regarding Non applicability of Final Documentation, BG will be liable for encashment.
10.	INSPECTION : BHEL / customer / third party shall inspect equipment / material before despatch. Stage inspection during manufacturing may also be carried out. Material to be despatched only after getting Material Despatch Clearance Certificate (MDCC) / MICC issued by BHEL.

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	Supplier shall send inspection call on prescribed format / web site only, with an advance notice of 15 days. Supplier to ensure submission of all routine / acceptance test reports, inspection reports and all other documents related to inspection, immediately to BHEL. BHEL representative is authorised to carry out audits along with Third Party Inspection Agency at vendor's / supplier's works before clearing the items for despatch.
11.	DESPATCH DOCUMENTS : Despatch documents to be immediately sent to BHEL on despatch are as follows :- • Copy of Invoice • Copy of LR / GR in case of Indian suppliers or BL / AWB in case of foreign suppliers • Copy of Packing List (Case-wise) • Copy of Transit Insurance Certificate from underwriters • Copy of Guarantee Certificate
12.	DELIVERY PERIOD : Delivery / Completion requirement shall be mentioned in the NIT. Bidder to specify best delivery / completion period possible in weeks from the date of LOI / PO as per activity schedule for consideration by BHEL. Time required for type test, if applicable, is to be separately indicated. Note : LR / GR date or invoice date (whichever is later) for indigenous supplies and BL / AWB date for FOB / CIF (if applicable) contracts shall be considered as delivery date.
13.	LIQUIDATED DAMAGES FOR DELAYED DELIVERY: In case of delay in execution of Purchase Order beyond the contractual delivery time, an amount of 0.5% of the total Purchase Order value for supply (excluding taxes and duties as applicable) per week of delay or part thereof subject to a maximum of 10% of the total Purchase Order value for supply (excluding taxes and duties as applicable) shall be deducted as Liquidated Damages (LD). PO value is defined as total ex-works/CIF value & F & I Charges, if any. However, in case of staggered (lot-wise) contractual delivery schedule, an amount of 0.5% of the total Purchase Order value for supply (excluding taxes and duties as applicable) per week of delay or part thereof subject to a maximum of 10% of the total Purchase Order value for supply (excluding taxes and duties as applicable) shall be deducted as Liquidated Damages (LD). PO value is defined as total ex-works/CIF value & F & I Charges, if any. Note : i) In case of any amendment / revision in P.O./WO, the LD shall be linked to the amended / revised Purchase Order / Contract value and delivery / completion time / schedule, if applicable. ii) LR / GR date or invoice date (whichever is later) for indigenous supplies and BL / AWB date for FOB / CIF (if applicable) for imported supplies shall be treated as the date of dispatch for levying LD as above. iii) However, for indigenous supply, if time period between date of receipt of material at site / destination by Site Official & the date of LR / GR or invoice (whichever is later) is more than 30 days, where distance from place of despatch as per LR /

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	GR is upto 1000 Kms or if time period between date of receipt of material at site / destination by Site Official & the date of LR / GR or invoice (whichever is later) is more than 45 days, where distance from place of despatch as per LR / GR is more than 1000 Kms, such excess period shall also be considered for LD purpose. iv) If, as per supplier, delay is not attributable to the supplier, delay analysis with documentary evidence may be submitted by the supplier at the earliest but not later than six months from the end of the financial year in which the payment is withheld. Based on the above details / documents submitted by the supplier, BHEL shall take final decision and if considered appropriate by BHEL, withheld amount (full or part as the case may be) shall be released, otherwise, full or balance withheld amount shall be treated as deduction of Liquidated Damages (LD) towards delayed delivery.
14.	VALIDITY OF OFFER : The offer shall be valid for 180 days from the due date of opening of tender (i.e. techno-commercial bid unless otherwise specified in the NIT). Prices of Spares, wherever they optional items, shall be valid till two years from the date of placement of PO.
15.	ACCEPTANCE / REJECTION OF TENDER : BHEL reserve the right to reject in full or part, any or all tender without assigning any reason thereof. BHEL also reserve right to vary the quantities as mentioned in the NIT. Acceptance of offer is subject to vendor approval by customer before opening of price bid. BHEL shall not be bound by any power of attorney granted by tenderer or by changes in composition of the firm made subsequent to award of order / contract. BHEL may however recognize such power of attorney and changes after obtaining proper legal advice, cost of which will be chargeable to the seller / contractor concerned. If the tenderer deliberately gives wrong information, BHEL reserves the right to reject such an offer at any stage or cancel the order / contract, if awarded, and forfeit the security deposit and bank guarantee.
16.	DEVIATION : The bids having deviation(s) w.r.t. tender are liable for rejection. However, BHEL, at its discretion, may load the prices for evaluation of offer with prior intimation to bidder.
17.	TENDER EVALUATION: Comparative statement shall be prepared and evaluated on total cost basis at destination/site (as per terms of NIT) considering overall quantity indicated in NIT unless contrary to same is specifically mentioned in the tender enquiry / NIT. Total cost for this purpose shall include cost of scope of work as mentioned in NIT along with applicable taxes & duties, and other services etc. (if applicable). GST input credit available to BHEL shall be reduced from prices while determining L1 status. In case all bidders are foreign & Port of Import (destination port) is same for all the bidders, evaluation of offers shall be done on CIF (Port of Import) basis. Otherwise, evaluation of offers shall be done on the basis of delivered cost at site /destination to BHEL. Further, in case of foreign bidders, marine freight & insurance are to be quoted separately & the purchase order may be placed on FOB basis with an option for delivery on CIF / CFR basis, if required, later. In case of foreign bidders, Exchange Rate (TT selling rate of State Bank of India) as on date of tender opening (Part-I Bid in case of two-part bid) shall be considered. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken for tender evaluation.
18.	LOADING CRITERIA: List of permissible deviations & loading criteria thereof are as follows:

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	a) Payment Terms Base rate of SBI (as applicable on the date of bid opening / techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidder(s) against terms of payment in the NIT. b) Liquidated Damages (LD) for Delayed Delivery Loading on LD clause shall be to the extent to which it is not agreed to by the bidder (at offered value). c) In case of foreign bidders, if the quoted prices is on CIF basis only, it shall be loaded to arrive at total FOR (Site / Destination) price, as applicable, by factors as follows :- i) Port handling / clearing charges: @ 1% of CIF value to arrive at Customs Assessable Value. ii) Custom Duty (including CVD & SAD) as per NIT prevailing on date of price bid opening. iii) Inland Freight & Transit Insurance: @ 5% of CIF value where distance between site / destination and Port of Discharge is upto 1000 Kms or @ 7% of CIF value where distance between site / destination and Port of Discharge is more than 1000 Kms. Note : Additional deviations (if considered acceptable by BHEL) & the loading criteria shall be communicated to all the qualified bidders before price bid opening.
19.	ARBITRATION : In the event of any dispute emanating from and relating to this contract, the matter shall be referred to the sole arbitration of the person appointed by the competent authority of BHEL. Subject to aforesaid, the provisions of "The Arbitration and Conciliation Act, 1996" and the rules made thereunder as amended from time to time in India shall apply to the arbitration proceedings. The venue of arbitration shall be in New Delhi. Further there shall be no claim for any pre-reference or pendente-lite interest on the claims and any claim for such interest made shall be void. However, in case of contract with Public Sector Enterprise / Undertaking (PSE/PSU) or Govt. Dept., the extant guidelines of Govt. of India shall be followed.
20.	LEGAL SETTLEMENT : Indian Courts at New Delhi / Delhi shall have exclusive jurisdiction to decide the dispute, if any, arising out of or in respect of the contract(s) to which these conditions are applicable. Contract, including all matters connected with contract, shall be governed by the Indian Law, both substantive and procedural, for the time being in force including modification thereto.
21.	SUB-CONTRACTING : In case further subcontracting of BHEL Purchase Order / Contract or part thereof is envisaged by supplier, the same can be done after written permission is obtained from BHEL. However it shall not absolve the Supplier / Contractor of the responsibility of fulfilling BHEL Purchase Order / Contract requirements. In case of subcontracting of Purchase Order / Contract awarded by BHEL or part thereof without such permission, BHEL reserve the right to cancel the Purchase Order / Contract and source such material / component / equipment / system from any other agency at the risk and cost of the Supplier / Contractor. If Supplier / Contractor is an individual or proprietary concern and the individual or the proprietor dies or the partnership is dissolved or substantially affected, then unless BHEL is satisfied that legal representative of individual Supplier / Contractor

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	or proprietor of proprietary concern and surviving partners of partnership firm are capable of carrying out and completing the Purchase Order / Contract, BHEL shall be entitled to cancel the Purchase Order / Contract as to its incomplete portion and without being in any way liable to payment of any compensation to legal representative of Supplier / Contractor and / or to surviving partners of Supplier's / Contractor's firm on account of cancellation of the Purchase Order / Contract. Decision of BHEL that legal representatives of deceased Supplier / Contractor or surviving partners of the Supplier's / Contractor's firm cannot carry out and complete the Purchase Order / Contract shall be final and binding on the parties hereto. Terms and Conditions shall not get affected in case of de-merger / amalgamation / taking-over / re-constitution etc.
22.	RISK PURCHASE : In case the Supplier / Contractor fails to supply or fails to comply with terms & conditions of the Purchase Order / Contract or delivers equipment / material not of the contracted quality or fails to adhere to the contract specifications or fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery / completion period to justify that supplies shall be inordinately delayed beyond contractual delivery / completion period, BHEL reserve the right to cancel the Purchase Order / Contract either in whole or in part thereof without compensation to Supplier / Contractor and if BHEL so desires, may procure such equipment / material / items not delivered or others of similar description where equipment / material / items exactly complying with particulars are not readily procurable in the opinion of BHEL which is final and in such manner as deemed appropriate, at the risk and cost of the Supplier / Contractor and the Supplier / Contractor shall be liable to BHEL for any excess cost to BHEL. However, the Supplier / Contractor shall continue execution of the Purchase Order / Contract to the extent not cancelled under the provisions of this clause. Recovery amount on account of purchases made by BHEL at the risk and cost of Supplier / Contractor shall be the difference of total value of new Purchase Order (PO) value and total value of old Purchase Order for applicable items, where the total value of new PO is more than total value of old PO for applicable items, plus additional 15% of the total ex-works value of new PO as overheads. The Supplier / Contractor shall on no account be entitled to any gain on such risk & cost purchase. In case the purchase order (PO) value of the new PO is less than the PO value of the old PO, 15% of the total ex-works value of the new PO shall be recovered as overheads and the difference between the PO value of the old PO and the new PO shall not be considered for calculation of the recovery amount.
23.	ADJUSTMENT OF RECOVERY : Any amount payable by the Supplier / Contractor under any of the condition of this contract shall be liable to be adjusted against any amount payable to the Supplier / Contractor under any other Purchase Order / Contract awarded to him by any BHEL unit. This is without prejudice to any other action, as may be deemed fit, by BHEL.
24.	FORCE MAJEURE CONDITION : If by reason of war, civil commotion, act of god, Government restrictions, strike, lockout which are not in control of Supplier / Contractor the deliveries / services are delayed, Supplier / Contractor shall not be held responsible. If at any time during the continuance of the Purchase Order / Contract, the performance in whole or in part by either party of any obligations under the Purchase Order / Contract is prevented or delayed by reason of any war hostilities, acts of the public enemy, restrictions by Govt. of India, civil commotion, sabotage, fires, floods, explosion, epidemics, quarantine restrictions, strike, lock-outs or acts of God

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	(hereinafter referred to as “event”), which are not in control of Supplier / Contractor or BHEL, then provided notice of the happening of such event is given by either party to the other within fifteen (15) days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate the Purchase Order / Contract nor shall have any claim for damages against each other in respect of such non-performance and delay in performance. Performance under the Purchase Order / Contract shall be resumed immediately after such event has come to an end or ceased to exist and decision of BHEL as to whether the deliveries have to be resumed or not shall be final, conclusive and binding on the parties hereto. In the event of the parties hereto not able to agree that a force majeure event has occurred, the parties shall submit the disputes for resolution pursuant to the provisions hereunder, provided that the burden of proof as to whether a force majeure event has occurred shall be upon the party claiming such an event. Notwithstanding above provisions, BHEL shall reserve the right to cancel the Purchase Order / Contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of delivery and other schedules.
25.	MANUFACTURING QUALITY PLAN (MQP) : Supplier to submit approved MQP in line with requirement of BHEL/customer.
26.	SUPPLIER PERFORMANCE MONITORING AND RATING SYSTEM : BHEL reserve the right for evaluation of Supplier Performance Rating as per Supplier Performance Monitoring and Rating System of BHEL for necessary action. Details are available at BHEL Website www.bhel.com for reference.
27.	DEALING WITH BANNED SUPPLIERS / CONTRACTORS IN BHEL : Offers of the bidders, who are on the banned list, as also the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com for reference.
28.	ORDER OF PRECEDENCE : The order of precedence shall be as follows :- a) Special Terms & Conditions (STC) for Tender Enquiry / Contract, if any b) General Terms & Conditions (GTC) for Tender Enquiry / Contract & Additional General Terms & Conditions (GTC) for Tender Enquiry / Contract for Erection Testing & Commissioning (ETC) at Site, if applicable Provisions in (a) above shall prevail over (b). In case of conflict, between Technical Specifications and STC / GTC, bidder to seek necessary clarifications from BHEL concerned official as specified in NIT.
29.	PACKING : Packing shall be in conformity with specifications and shall be such as to ensure prevention of damages, corrosion, deterioration, shortages, pilferage and loss in transit or storage. In case of shipment by sea or air, the packing shall be sea-worthy or air-worthy respectively and of international standards. Different types of spares i.e. start-up / commissioning spares and initial spares (mandatory spares and recommended O&M spares) are to be packed separately. Packing List shall be submitted as per standard format along with advance set of documents for claiming payment which shall also indicate :- a) Case / Packing size (as applicable). b) Gross weight and net weight of each package. c) Detailed contents of the package with quantity of each item separately. Project, Item / Package Description, BHEL's PO No. with date & Case / Packing Mark should also be clearly mentioned on the Case / Packing and Packing List for identification. Also, Packing List must be duly signed & should include respective Invoice No. & LR No.

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	Note : Foreign suppliers to furnish details to arrange inland transportation by BHEL, if applicable, as follows :- i) No. of Packages ii) Size with Weight (Gross & Net) of each Package iii) No. of Containers with type & size required for inland transportation iv) Type of Cargo (Break Bulk / LCL / FCL) v) Customs Tariff No.
30.	COLOUR CODING : Aluminium stickers are required to be attached to large components but plastic sheet tags should be tied with small components, giving details like purchase order, description of the component, quantity etc. Tags should be of the colour as follows :- a) Main equipment : Yellow or White tag b) Start-up / Commissioning spares : Blue tag c) Mandatory spares : Pink or Red tag d) Recommended / O&M spares : Green tag
31.	MICRO, SMALL & MEDIUM ENTERPRISES (MSME) : MSMED Act 2006 as amended from time to time & extant regulations of Govt. of India for MSME will be applicable. Micro & Small Enterprises (MSE) can avail the intended benefits only if they submit along with the offer / bid, attested copies of either Acknowledgement of Entrepreneur Memorandum Part-II (EM-II certificate) having deemed validity (five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM-II certificate along with attested copy of a CA certificate (As per BHEL format where deemed validity of EM-II certificate of five years have expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of opening (for Techno-commercial Bid : Part-I 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 arrested (in original) by a Gazetted officer. Copy of Udyog Aadhaar Memorandum with Acknowledgement of Ministry of Micro, Small & Medium Enterprises should also be furnished.
32.	BUSINESS ETHICS / SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS / CONTRACTORS : If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution, indulges in malpractices cheating, bribery, fraud or other misconduct or formation of cartel so as to influence the bidding process or influences the price or fails to perform or is in default without any reasonable cause etc or performs any act considered objectionable as per extant guidelines, action may be taken against such bidders/supplier/contractor as per extant "Guidelines for Suspension of Business Dealings with Suppliers/Contractors". Abridged version of same is available at BHEL website (www.bhel.com) on "Supplier Registration" Page.
33.	REVERSE AUCTION : BHEL reserve the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder or price bid submitted by the bidder through e-procurement system. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

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	In case BHEL decides to go for Reverse Auction, only those bidders who have given their unconditional acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "online sealed bid" in the Reverse Auction. Non-submission of "online sealed bid" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. General Terms and Conditions of RA are available at Annexure. Business Rules for RA shall be sent to the bidders before conducting RA. Abridged Version of "Common Guidelines for Conducting Reverse Auction" may also be seen at BHEL website (www.bhel.com) on "Supplier Registration" Page & "Tender Notifications" Page.
34.	INTEGRITY PACT : Bidders shall have to enter into Integrity Pact with BHEL, duly signed with seal in original, if specified in NIT / RFQ failing which bidder's offer shall be liable for rejection.
35.	TERMINATION OF CONTRACT : BHEL shall have the right to cancel the Purchase Order / Contract without any financial implication to BHEL if vendor approval by end user / customer is withdrawn or in case of Suspension of Business Dealings with the Suppliers / Contractors by BHEL. BHEL shall have the right to cancel Purchase Order / Contract, wholly or in part, in case they are obliged to do so on account of any decline, diminution, curtailment or stoppage of their business and in that event, the Supplier's / Contractor' compensation claim shall be settled mutually. In case of cancellation of Purchase Order / Contract for main supply, all other associated Purchase Orders / Contracts like those for Mandatory Spares / Recommended Spares / Erection, Testing & Commissioning (ETC) / Supervision of ETC, if any, would also get cancelled.
36.	SHELF LIFE Supplier has to inform the list of the items / sub-items which have limited shelf life like consumables or those required for the first fill and shall indicate the corresponding shelf life period in the offer. Such items / sub-items shall be manufactured / despatched only after getting formal clearance from BHEL.
37.	LIMITATION OF LIABILITY : Notwithstanding any other provisions, except in cases of wilful misconduct and / or criminal negligence / acts, a) Neither the Supplier / Contractor nor BHEL shall be liable to the other, whether in Purchase Order / Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the Supplier / Contractor to pay Liquidated Damages to the BHEL and b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the Contractor in respect of this contract, whether under the Contract, in tort or otherwise, shall not exceed total Contract Price, provided however that this limitation shall not apply to any obligation of the Vendor to indemnify BHEL with respect to Patent Infringement or Intellectual Property Rights.

Sr. No.	
38.	SHORTAGES / DAMAGES : a) Against Supply only or Supply where Supervision of Erection, Testing & Commissioning (ETC) at Site or Supply where Testing & Commissioning at Site is in scope of the supplier : Any shortages and / or damages in supplies shall be supplied / replenished free of cost by the supplier as early as possible but not later than 30 days from the date of intimation by BHEL to the supplier. b) Against Supply where Erection, Testing & Commissioning (ETC) at Site is in scope of the supplier : Any shortages and / or damages in supplies and during handling / storage, erection, testing and commissioning at site shall be supplied / replenished free of cost by the Supplier / Contractor, as early as possible, to meet the contractual completion time / schedule. Note: There shall not be any extension in the contractual delivery time / schedule due to any shortages and / or damages in supplies.
39.	VARIATION OF CONTRACT VALUE / QUANTITY VARIATION : BHEL shall have the right to variation in quantities of items within $\pm 30\%$ of the total Purchase Order / Contract value at the time of placement of PO or award of Contract on overall basis for all amendments together within two years from the date of original Purchase Order / Contract or completion of execution of the Purchase Order / Contract whichever is earlier but quantities of individual items may vary to any extent or may get deleted unless otherwise specified in the technical specifications. No compensation is payable due to variation in the quantities and the Supplier / Contractor shall be bound to accept the same the contracted prices / rates without any escalation. However, if the Purchase Order / Contract is on "Lumpsum" basis, no variation of Purchase Order / Contract value shall be admissible to the Supplier / Contractor within the scope of Purchase Order / Contract, as long as the inputs remain unchanged.
40.	STATUTORY VARIATION : GST rates prevailing at the time of dispatch of goods/ completion of services shall be payable by BHEL. All other taxes, duties, charges, royalty, cess, other levies shall be deemed to be included in the Ex Works Prices / Charges quoted by bidders and no variations shall be payable in respect thereof. No other variations such as on customs duty, exchange rate, minimum wages, prices of controlled commodities, any other input etc. shall be payable by the BHEL. Notwithstanding anything above, where the actual completion of the supply / services occurs beyond the period stipulated in the Purchase Order / Contract or any extension thereof, variations referred to above, will be limited to the rates prevailing on the dates of such agreed completion periods only. For variations after the agreed completion periods, the Supplier / Contractor alone shall bear the impact for the upward revisions and for downward revisions BHEL shall be given the benefit of reduction in applicable taxes / GST. This will be without prejudice to the levy of liquidated damages for delay in delivery / completion. If new tax is introduced by Central/ State Govt/ Municipality becomes directly applicable on items specified in Bill of Quantities/Purchase Order/Contract, full reimbursements shall be made provided it becomes applicable on items specified in Bill of Quantities. However, any additional tax implication due to delay in delivery, beyond the Contractual Delivery, attributable to supplier shall be borne by supplier.
41.	MODE OF PAYMENT : Payment shall be made directly to the Supplier / Contractor by BHEL through NEFT / RTGS.

Sr. No.	
42.	CONFIDENTIALITY : Supplier / Contractor shall, at all times, undertake to maintain complete confidentiality of all data, information, software, drawings & documents etc. belonging to BHEL and also of systems, procedures, reports, input documents, manuals, results and any other BHEL documents discussed and / or finalized during the course of execution of Purchase Order / Contract.
43.	INDEMNIFICATION : The Supplier / Contractor shall indemnify and keep indemnified and hold harmless BHEL and its employees and officers from and against any and all claims, suits, actions or administrative proceedings, demands, losses, damages, costs and expenses and any other claim of whatsoever nature in respect of the death or injury of any person or loss of or damage to any property arising during the course and out of the execution of the Purchase Order / Contract.
44.	TITLE OF GOODS : a) Ownership of the equipment / material procured in India, shall be transferred to BHEL upon loading on to the mode of transport to be used for transportation of the said equipment / material from the works to the site / destination and upon endorsement of the dispatch documents in favour of BHEL. b) Ownership of the equipment / material to be imported into the country where the site is located, if not procured in India, shall be transferred to BHEL upon loading on the mode of transport to be used for transportation of the equipment / material from the country of origin to that country / destination and upon endorsement of despatch document in favour of BHEL. c) Notwithstanding the transfer of ownership of the equipment / material, the responsibility for care and safe custody thereof together with the risk of loss or damage thereto for whatsoever reason shall remain with the Supplier.
45.	COMPLIANCE OF STATUTORY REQUIREMENTS : The vendor shall comply with all State and Central Laws / Acts, Statutory Rules, Regulations etc., as may be enacted by the Government during the tenure of the Purchase Order / Contract and having in force and applicable to the Purchase Order / Contract and nothing shall be done by the Supplier / Contractor in contravention of any Law / Act and / or Rules / Regulations, thereunder or any amendment thereof. The Supplier / Contractor shall pay all taxes, fees, licence charges / deposits, duties, tolls, royalty, commissions or other charges which may be levied on account of any of his operations connected with the Purchase Order / Contract. In case BHEL is constrained to make any of such payments, BHEL shall recover the same from the Supplier / Contractor either from moneys due to him or otherwise as deemed fit.
46.	ACCEPTANCE OF ORDER : Supplier should acknowledge and accept the Letter of Award / Purchase Order issued by BHEL within 7 days of the issue of Letter of Award / Purchase Order. In case of any discrepancy / typographical error in issue of Purchase Order / Contract, the agreed terms & conditions, scope of work, rates / prices for placement of PO / award of contract shall be applicable and BHEL reserves the right to issue amendment(s) to PO / Contract for correction of discrepancies / typographical errors in the PO / Contract at a later date.
47.	FRAUD PREVENTION POLICY : The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

Signature of Bidder (Authorized Signatory) with Date & Seal

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
A	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme	GIS shall be 220kV, 2000A, 50kA for 3 second Double Bus GIS configuration complete with local control centre (LCC). Typical Bay includes Busbar, Circuit Breaker, Disconnecter & Maintenance Grounding Switch, Fast Acting Make Proof Grounding Switches, Voltage Transformer, Current Transformer, Surge Arrestor, SF6 to Air Bushings/ Connection Module, SF6 to Oil Connection Module, Cable Connection Module, GIS bus duct, Gas Monitoring Devices, Online PD Monitoring System, Pressure Switches etc. (Refer attached Single Line Diagram). GIS shall comprise following bays but not limited to, a. 2 Set- Fully Equipped Line GIS Bay b. 4 Set- Fully Equipped Transformer GIS Bay c. 4 Set- Fully Equipped Spare GIS Bay d. 1 Set- Fully Equipped Buscoupler GIS bay, complete with local control cabinet (LCC), cable etc. Typical Bay includes Busbar, Circuit Breaker, Disconnecter, Maintenance Earthing Switch, High Speed Earthing Switch, Current Transformer, Voltage Transformer, Surge Arrestor, SF6 to EHV Cable termination Module, SF6/Air termination module, SF6 to Oil Termination Module, Gas Monitoring Devices, Online PD Monitoring System, Pressure Switches etc. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas filling, interconnecting cabling & wirings, grounding connections, gas monitoring systems and pipings, trays, support structures. Hence, the scope shall include supply, erection and mounting of hardware and interconnecting cables between GIS to LCC and between LCC to LCC including Cable Trays, Tags, Glands, ferrules, Lugs etc, however cables beyond LCC panel shall be supplied and laid by BHEL under the supervision and input of the bidder.												
A.1	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Line GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme grid incomer GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to air bushing/ connection module are not included in this bay and these items are covered separately else where in the BOQ.	Set	2										
A.2	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Transformer GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme transformer GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to oil bushing/ connection module, surge arrester etc. are not included in this bay and these items are covered separately else where in the BOQ.	Set	4										
A.3	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Spare GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme spare GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to EHV cable connection module are not included in this bay and these items are covered separately else where in the BOQ.	Set	4										

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
A.4	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Buscoupler GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme buscoupler GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (c) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (d) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (e) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (f) Any other item required to complete the system in all respects but not limited to above.	Set	1										
A.5	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Bus Measurement Bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme bus measurement GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (b) 3 no- 1 phase multi winding voltage transformers as per CT VT parameters (e) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (f) Any other item required to complete the system in all respects but not limited to above.	Set	2										
A.6	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Bus Earth Switch Bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme bus earth switch bay GIS bay, each set comprising of following but not limited to, (a) 2 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (b) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (c) Any other item required to complete the system in all respects but not limited to above.	Set	2										
A.7	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Extension Module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS extension module 1 phase, shall be as follows, but not limited to, (a) Between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS. (b) Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc It shall be in line with clause 5.n, 7, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Set	1										
A.8	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Bus Extension Module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS bus extension module 3 phase, shall be as follows, but not limited to, (a) Between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS. (b) Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc. It shall be in line with clause 5.n, 7, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Set	2										
A.9	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Surge Arrester Module with Surge Counter	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS extension module, shall be as follows, but not limited to, between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS . Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc.	No	24										
A.10	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Gas Insulated Bus Duct	220kV, 2000A SF6 gas insulated GIS Bus duct shall include the following but not limited to, (a) 1 phase SF6 gas insulated bus duct to connect line GIS bay with SF6 to air bushing/ connection. (b) 1 phase SF6 gas insulated bus duct to connect transformer GIS bay with to SF6 to oil bushing/ connection of tranformer. (c) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. The total tentative length indicated is the sum of all 1 phase SF6 bus duct from respective bay to SF6 to air bushing/ connection/ SF6 to oil bushing/ connection. However, exact length shall be decided based on the details finalized during detailed engineering.	Mtr	600										

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
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1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
A.11	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to air bushing/ connection	Single phase 220kV , 2000A SF6 to Air Bushing shall be supplied for the air termination of the GIS shall be as per IEC. (a) Single phase ,400kV , 2500A , termination module for terminating GIS SF6 bus duct in Potheadyard. (b) Scope of supply shall be as per latest version of IEC . (c) Gas monitoring system, pressure relief device, busbar, insulator, expansion joint/ flexible connection etc. as required. (d) Barrier cones, mechanism box and other items as required. (e) Any other item required to complete the system in all respects but not limited to above.	No	6										
A.12	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to oil bushing/ connection	Single phase 220kV , 2000A SF6 to Air Bushing shall be supplied for the air termination of the GIS shall be as per IEC. (a) Single phase ,400kV , 2500A , termination module for terminating GIS SF6 bus duct in Potheadyard. (b) Scope of supply shall be as per latest version of IEC . (c) Gas monitoring system, pressure relief device, busbar, insulator, expansion joint/ flexible connection etc. as required. (d) Barrier cones, mechanism box and other items as required. (e) Any other item required to complete the system in all respects but not limited to above.	No	12										
A.13	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to EHV cable GIS connection module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme SF6 to EHV cable GIS connection module 1 phase, shall be as follows, but not limited to, (a) It shall be of the plug-in type with dry-type or fluid-filled terminations. The interfaces conform to IEC standards. A removable link, which disconnects and isolates the GIS from the cable during high-voltage test for convenience and ease of operations shall also be provided. (b) Termination kit for fixing of cable shall also be provided in line with IEC62271-209. (c) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (d) Any other item required to complete the system in all respects but not limited to above.	No	36										
A.14	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Local Control Centre (LCC)	Local Control Centre (LCC) for each bay shall include the following but not limited to, (a) Line GIS bay- 2 set (b) Transformer GIS bay- 4 set (c) Spare GIS bay- 4 set (d) Buscoupler GIS bay- 1 set Bidder shall meet the requirement of LCC for the complete GIS System in minimum 11 nos of LCC, however exact no LCC shall be decided during detailed engineering. and hence any additional requirement during detailed engineering shall not be payable.	Lot	1										
A.15	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 gas required for placing GIS into successful operation	First filling of SF6 gas for the equipment supplied plus an additional quantity sufficient for conducting all the tests on equipment at site before placing it into successful operation.	Lot	1										
A.16	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Structure Materials for support of GIS, Bus Ducts, SF6 to oil bushing/ connection and SF6 to air bushing/ connection including Foundation Bolts, Embedded Items, Rails and/ or other items structural items required	Structure Materials for support of GIS, Bus Ducts, SF6 to oil bushing/ connection and SF6 to air bushing/ connection including Foundation Bolts, Embedded Items, Rails and/ or other items structural items required. All steel structure members shall be hot-dip galvanized after fabrication. Unless otherwise specified, minimum mass of zinc coating for Galvanizing shall be 610 gm/square meter. All field assembly joints shall be bolted. Field welding shall not be acceptable. Noncorrosive metal or plated steel shall be used for bolts and nuts throughout the work. Manufacturer shall provide suitable foundation channels and anchor bolts to support the switchgear assemblies. All mounting bolts, nuts and washers shall be provided to fasten the switchgear base frames to the foundation channels. In addition to above, supports, platforms, foundation bolts, embedded parts in floors etc., are also included in the scope as per the specification, but not limited to the following, (a) Base Plate, Channel, Metallic / Structural Member for seating of GIS system (b) Lattice / Pipe structure required for GIS bay, GIB,SF6 to oil bushing/ connection and SF6 to air bushing/ connection. (c) Foundation bolt / Anchor Fastening bolts for GIS system, if required. (d) Equipment fixing hardware. (e) Cable tray arrangement (mounted on structures of) GIS bay, GIB,SF6 to oil bushing/ connection and SF6 to air bushing/ connection. (f) Any other structural item required to complete the system in all respects but not limited to above. It shall be in line with clause 8.19, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1										
A.17	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Complete Earthing Materials including High Frequency Earthing	Earthing Materials, except 40mm MS rod,75x12mm / 50x6 GI Flat, which shall be provided by BHEL as free issue item (FIM), however, exact requirement shall be intimated by bidder based on the earthing philosophy approved, and Supervision of erection of all earthing connection for GIS to Earth Mesh on Floor shall be scope including any special requirements including high frequency earthing. In case, high frequency earthing is not required, necessary design and calculations shall be submitted by bidder. It shall be in line with clause 8.25, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1										
A.18	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Consumables for GIS system	All consumables including grouting material and chemicals for the chemical anchors bolts etc., if applicable for GIS system shall be provided by bidder, however, in case of consumables with shelf life less than six months shall be supplied with special permission and intimation from BHEL.	Lot	1										

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
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								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
B	Supply: Maintenance Equipment	Maintenance Equipment shall be shipped in separate containers, clearly marked with the name of the equipment for which they are intended. However, Breaker Timing Measurement Kit shall be brought by bidder during commissnging on returnable basis.												
B.1	Supply: Maintenance Equipment- Dew Point Measurement Meter	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.2	Supply: Maintenance Equipment- SF6 Leakage Detector Meter	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.3	Supply: Maintenance Equipment- Precision Pressure Gauge	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.4	Supply: Maintenance Equipment- Gas recovery unit with required accessories	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.5	Supply: Maintenance Equipment- SF6 gas purity detector/ analyzer for SO2, H2O, CF4, AIR etc.	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.6	Supply: Maintenance Equipment- Online Portable PD analyzer/ measurement kit suitable for GIS along with required accessories	Online Portable PD analyzer/ measurement kit shall be cprmatible for PD measurement for GIS and Power Transformer system. It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.7	Supply: Maintenance Equipment- Air/ gas humidity tester	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.8	Supply: Maintenance Equipment- A mobile SF6 gas treatment plant, which shall be suitable for draining, filtration/ purification and refilling the equipment shall be provided. The plant shall have storage capacity for at least two of the largest switchgear compartments and shall be supplied with complete accessories such as vacuum pump, pressure gauge, valves, hoses, couplings, adaptors, etc., necessary for evacuating and filling, together with storage facilities for these items. Maintenance Equipment- A SF6 Gas maintenance cart, which shall be easily moved by one (1) person, shall be provided with enclosed storage facilities for proper storage of cylinders and other accessories including power leads. The enclosed storage shall have facilities for padlocking	It shall be in line with clause 8.18, 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.9	Supply: Maintenance Equipment- A two wheel gas maintenance cart fitted with a cylinder of SF6 gas, a vacuum pump, a vacuum and pressure gauge and all necessary valves, hoses and couplings for evacuating and filling the switchgear	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.10	Supply: Maintenance Equipment- SF6 gas leakage test equipment shall be suitable for testing SF6 gas as per recommendations of IEC 60376. a. Instruments for automatic and continuous monitoring for the presence of SF6 gas in the atmosphere of the switchgear room shall be provided. The recommended positions, exact number of detectors, type of mounting, facilities for alarm etc. shall be indicated during the drawing approval stage. b. Each set of analyser shall comprise of: i. SO2 content in SF6 gas ii. Purity of SF6 gas iii. SF6 gas moisture content	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1										
B.11	Supply: Maintenance Equipment- All special tools required for the purpose of installation, maintenance, overhauling and testing of GIS and also for the measurement of moisture in SF6.	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Lot	1										
B.12	Supply: Maintenance Equipment- Any other special tools and tackles required for proper maintenance of GIS units has to be supplied by the bidder	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Lot	1										
C	Supply Item: Mandatory SPARES													

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
C.1	Supply: Mandatory Spares- Spare SF6 gas required for the complete GIS	1 Lot= 10% of the total quantity. This spare quantity shall be supplied in non-returnable containers in ready to use condition.	Lot	1										
C.2	Supply: Mandatory Spares- Handle for dis-connector switch drive		No	4										
C.3	Supply: Mandatory Spares- Handle for earthing switch drive		No	4										
C.4	Supply: Mandatory Spares- Pre selection key for three position switch		No	1										
C.5	Supply: Mandatory Spares- Tripping coil		No	4										
C.6	Supply: Mandatory Spares- Closing coil		No	4										
C.7	Supply: Mandatory Spares- Capacitive type voltage detectors		Set	1										
C.8	Supply: Mandatory Spares- Control fuses / MCB	1 Set = 10 no of each type and rating	Set	1										
C.9	Supply: Mandatory Spares- Density monitoring device	1 Set= 2 no of each type	Set	1										
C.10	Supply: Mandatory Spares- Pressure Gauge	1 Set= 2 no of each type	Set	1										
C.11	Supply: Mandatory Spares- Indicating lamps covers	1 Set- 5 no of each colour	Set	5										
C.12	Supply: Mandatory Spares- Indicating lamps	1 Set= 20% or 3 no (min), whichever is more	Set	1										
C.13	Supply: Mandatory Spares- Spring charging motor assembly with gear system	1 Set= 2 no of each type	Set	1										
C.14	Supply: Mandatory Spares- PT of GIS system	1 Set= 2 no of each type	Set	1										
C.15	Supply: Mandatory Spares- CT of GIS system	1 Set= 2 no of each type	Set	1										
C.16	Supply: Mandatory Spares- Isolator power and auxiliary contact		Set	1										
C.17	Supply: Mandatory Spares- Isolator operating motor/ SOV assembly		Set	1										
D	Supply: Operation & Maintenance Spares	Bidder to quote BOQ for recommended spares for two years of normal operation & maintenance from the date of commissioning. Bidder shall quote recommended spares for two years of normal operation & maintenance from the date of commissioning. In case of no such requirement, bidder shall submit the certification stating that " We do not hereby recommend any operation & maintenance spares for the period of two years from the date of commissioning, however in case of such requirement in future, same shall be supplied free of cost."	Lot	1										
I	Supply: GIS- Any item(s) required for completion of project but not covered in Supply Items	Any supply item(s) required for completion of GIS sytem, but not covered above shall be covered in bidder's scope.	Lot	1										
G	Supply: Unit reference price of GIS part item/ equipment	GIS part item/ equipment shall be required for supply as a mandatory spares or any addition/ deletion of equipment, due to damage, theft, additional requirement by customer during detailed engineering or later stage. It is to be ensured by bidder that unit prices have a logical relationship with prices of assemblies in main items (Bay, Busbar etc). The reference prices shall be used for breakup rates, if required at any stage. The reference prices shall be considered for evaluation.												
G.1	Supply: Unit reference price of GIS part item/ equipment: 220kV , 2000A Circuit Breaker	1 Set= 1 No of each rating and type with one poles with enclosure & without operating mechanism	Set	1										
G.2	Supply: Unit reference price of GIS part item/ equipment: 220kV , 2000A Disconnecter with Maintenance Earthing Switch	1 Set= 1 No of each rating and type with all three poles with enclosure & without operating mechanism	Set	1										

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
G.3	Supply: Unit reference price of GIS part item/ equipment- 220kV , 2000A Disconnecter without Maintenance Earthing Switch	1 Set= 1 No of each rating and type with all three poles with enclosure & without operating mechanism	Set	1										
G.4	Supply: Unit reference price of GIS part item/ equipment- 220kV , 2000A Fast acting make proof grounding switch/ High speed make proof grounding switch	1 Set= 1 No of each rating and type with all three poles with enclosure & without operating mechanism	Set	1										
G.5	Supply: Unit reference price of GIS part item/ equipment- Surge Arrestor including Surge Counter (Rated arrester voltage – 198kV)	1 Set= 1 No of each rating and type with enclosure. Rated voltage may be changed after insulation coordination study.	Set	1										
G.6	Supply: Unit reference price of GIS part item/ equipment- 220kV Current Transformer	1 Set= 1 No of each rating and type with enclosure	Set	1										
G.7	Supply: Unit reference price of GIS part item/ equipment- 220kV Voltage Transformer	1 Set= 1 No of each rating and type with enclosure	Set	1										
G.8	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism for Circuit Breaker	1 Set= 1 No of each rating and type	Set	1										
G.9	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism box for Disconnecter with Maintenance earthing switch	1 Set= 1 No of each rating and type	Set	1										
G.10	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism box for Disconnecter without Maintenance earthing switch	1 Set= 1 No of each rating and type	Set	1										
G.11	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism for Fast acting make proof grounding switch/ High speed make proof grounding switch	1 Set= 1 No of each rating and type	Set	1										
G.12	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 Phase bus bar conductor		Mtr	1										
G.13	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 phase GIS metallic enclosure for bus bar/ any equipment		Mtr	1										
G.14	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 Phase conductor for bus duct		Mtr	1										
G.15	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 phase GIS metallic enclosure for bus duct		Mtr	1										
G.16	Supply: Unit reference price of GIS part item/ equipment- Gas permeable/ communication/ barrier type Insulator	1 Set= 1 No of each rating and type	Set	1										
G.17	Supply: Unit reference price of GIS part item/ equipment- Gas non- permeable/ non - communication/ non-barrier type Insulator	1 Set= 1 No of each rating and type	Set	1										
G.18	Supply: Unit reference price of GIS part item/ equipment- PD sensor	1 Set= 1 No of each rating and type	Set	1										
G.19	Supply: Unit reference price of GIS part item/ equipment- Pressure/ density monitor monitor device & Switch	1 Set= 1 No of each rating and type	Set	1										
G.20	Supply: Unit reference price of GIS part item/ equipment- Pressure relief device	1 Set= 1 No of type	Set	1										
G.21	Supply: Unit reference price of GIS part item/ equipment- Rupture disc	1 Set= 1 No of type	Set	1										
G.22	Supply: Unit reference price of GIS part item/ equipment- Elbow/ bend/ cross and T section	1 Set= 1 No of type	Set	1										

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)														
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS														
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES				
G.23	Supply: Unit reference price of GIS part item/ equipment-Expansion joint	1 Set= 1 No of type	Set	1										
G.24	Supply: Unit reference price of GIS part item/ equipment-Flexible connections	1 Set= 1 No of type	Set	1										
G.25	Supply: Unit reference price of GIS part item/ equipment-Gas seals	1 Set= 1 No of type	Set	1										
E	Service: GIS- Supervision of Erection, Testing & Commissioning and handing over to Customer	These activities shall be carried out at site in stages as per requirement or front availability at site, and hence multiple visits for completion of work are envisaged.												
E.1	Service: GIS- 220KV, Site visit for supervision of unloading & verification of GIS materials for proper storage and up-keeping at site	Site visit for supervision of unloading & verification of materials for proper storage and up-keeping at site includes following activities but not limited to, (a) Supervision of safe unloading of GIS & its accessories at site. (b) Reconciliation, storage & upkeeping of materials, with due instructions/ training to site persons for long storage.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.2	Service: GIS- 220KV, Supervision of erection of GIS bays including LCC	Supervision of complete GIS bays along with all bay equipment such as GIS extension module, GIS bus extension module, surge arrester, voltage transformer, LCC including structure, cabling, earthing & other associated activities shall be included in the scope.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.3	Service: GIS- 220KV, Supervision of erection of GIS- For gas insulated bus duct	Supervision of complete GIS bays along with all bay equipment including support structure, earthing & other associated activities shall be included in the scope.	Mtr	600						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.4	Service: GIS- 220KV, Supervision of erection of GIS- SF6 to air bushing/ connection	Supervision of erection of GIS- SF6 to air bushing/ connection including support structure, earthing & other associated activities shall be included in the scope.	No	6						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.5	Service: GIS- 20KV, Supervision of erection of GIS- SF6 to oil bushing/ connection	Supervision of erection of GIS- SF6 to oil bushing/ connection including support structure, earthing & other associated activities shall be included in the scope.	No	12						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.6	Service: GIS- 220KV, Supervision of erection of GIS- SF6 to EHV cable GIS connection module	Supervision of erection of GIS- SF6 to EHV cable GIS connection module including support structure, earthing & other associated activities shall be included in the scope.	No	36						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.7	Service: GIS- 220KV, Testing & commissioning of GIS bays including LCC	Testing & commissioning of complete GIS bays including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.8	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to air bushing/ connection	Testing & commissioning of complete GIS- SF6 to air bushing/ connection including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	6						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.9	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to oil bushing/ connection	Testing & commissioning of GIS- SF6 to oil bushing/ connection including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	12						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.10	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to EHV cable GIS connection module	Testing & commissioning of GIS- SF6 to EHV cable GIS connection module including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	36						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.11	Service: GIS- 220KV, Testing & commissioning of GIS- Final Successful High Voltage/ Power Frequency Testing of complete GIS	Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit (on returnable basis) shall be in scope of bidder, which includes charges HV test kit with operator, accessories & tools required for completion of HV testing. Bays may be commissioned separately. No delay shall be permitted on account of the non availability of the HV	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.12	Service: GIS- 220KV- Insulation Co-ordination Studies for GIS System	Insulation co-ordination activities shall in bidder's scope. In case of non availability of exact input details, same shall be done be done on basis of standard inputs available and shall be revised after availability of exact input details.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
E.13	Service: GIS- 220KV- Final Documentation	Final Documentation including As Built Drawing/ Document, Site Testing Reports/ Protocols, Handing over proptcols along with manuals shall be submitted etc. by bidder.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
F	Services: Training													
F.1	Service: Training- Training for GIS of 12 no Engineers (10 no customer engineers+2 no BHEL engineers) for a period of at least 7 working days at Manufacturer's works	It shall be in line with clause 13, Section-2of technical specification and mentioned elsewhere in Technical Specification.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
F.2	Service: Training- Training for GIS of 12 no Engineers (10 no customer engineers+2 no BHEL engineers) for a period of at least 7 working days at project site	It shall be in line with clause 13, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
J	Service: GIS- Any service(s) required for complation of project but not covered in service Items	Any service item(s) required for completion of GIS sytem, but not covered above shall be covered in bidder's scope.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	

PRICE BID SCHEDULE (ONLY FOR INDIAN SUPPLIER)															
BHEL ENQUIRY NO: PROJECT: IOCL PANIPAT PROJECT ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS															
Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Unit Ex-works /prices	Total Ex-Works/ prices	% of GST on Ex-works (vendor to mention % of GST applicable in respect of each line item)	GST on total Ex-works prices	Unit Freight & Insurance	Total Freight & Insurance	% of GST on F&I (vendor to mention % of GST applicable in respect of each line item)	GST on Total Freight & Insurance	TOTAL (FOR Destination) PRICE (Rs.)	
1	2	3	4	5	6	7	8 = 5 X 7	9	10	11	12 = 5 X 11	13	14	15 = 8 + 10 + 12 +14	
								Note: Bidder to quote % of GST for services (item no: G,H,J)		NOT APPLICABLE FOR SERVICE CHARGES					
H	Service: Unit reference price of GIS part item/ equipment														
H.1	Service: Unit reference price of GIS part item/ equipment- Services of supervision for Erection of GIS	Services of supervision for Erection of GIS	Manday	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE		
H.2	Service: Unit reference price of GIS part item/ equipment- Services of Testing & Commissioning of GIS	Services of Testing & Commissioning of GIS	Manday	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE		
H.3	Service: Unit reference price of GIS part item/ equipment- Hiring charges of HV test kit with operator	Additional HV test kit charges including charges of operator, HV test kit, accessories & tools required for completion of HV test (Dielectric Test after installation of GIS). HV test kit charges include one or more bay at site.	Lot	1						NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE		
			TOTAL ITEMS	1493											
		TOTAL EX-WORKS PRICES (SUPPLY + SERVICES) =													
		TOTAL GST VALUE ON TOTAL EX-WORKS PRICES (SUPPLY + SERVICES) =													
		TOTAL FREIGHT & INSURANCE CHARGES (SUPPLY) =													
		TOTAL GST VALUE ON FREIGHT & INSURANCE CHARGES =													
		TOTAL FOR DESTINATION PRICES INCLUDING GST VALUE (SUPPLY + SERVICES) =													
		[EVALUATION WILL BE DONE ON TOTAL FOR DESTINATION PRICES EXCLUDING GST VALUE]													
NOTE: 1. Bidder has to mention "quoted" (in each applicable cell) in unpriced bid. In case that cell is Not Applicable, "NA" must be mentioned in that particular cell. Prices shall be mentioned in Price bid schedule only. 2. Bidder strictly to quote as per BHEL format only. Other format of price bid will be liable for rejection. 3. Bidder to quote strictly as per BoQ. Rates/prices shall not be combined. In case, the charges/prices are combined, BHEL reserves the right to reject the offer. Decision of BHEL shall be final. 4. It is certified that, We (M/s _____) have quoted as per the specified price format of the tender, otherwise our offer shall be liable for rejection.															
NAME AND SEAL OF TENDERER															

PRICE BID SCHEDULE (ONLY FOR FOREIGN SUPPLIER)

BHEL ENQUIRY NO:
PROJECT: IOCL PANIPAT PROJECT
ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS

Sr. NO	Description	Detailed Description	Unit	Qty	HSN / SAC Code	Currency	Unit-CIF [Indian Sea port]	Total-CIF [Indian Sea port]
1	2	3	4	5	6	7	8 = 5 X 7	9
A	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme	GIS shall be 220kV, 2000A, 50kA for 3 second Double Bus GIS configuration complete with local control centre (LCC). Typical Bay includes Busbar, Circuit Breaker, Disconnecter & Maintenance Grounding Switch, Fast Acting Make Proof Grounding Switches, Voltage Transformer, Current Transformer, Surge Arrestor, SF6 to Air Bushings/ Connection Module, SF6 to Oil Connection Module, Cable Connection Module, GIS bus duct, Gas Monitoring Devices, Online PD Monitoring System, Pressure Switches etc. (Refer attached Single Line Diagram). GIS shall comprise following bays but not limited to, a. 2 Set- Fully Equipped Line GIS Bay b. 4 Set- Fully Equipped Transformer GIS Bay c. 4 Set- Fully Equipped Spare GIS Bay d. 1 Set- Fully Equipped Buscoupler GIS bay, complete with local control cabinet (LCC), cable etc. Typical Bay includes Busbar, Circuit Breaker, Disconnecter, Maintenance Earthing Switch, High Speed Earthing Switch, Current Transformer, Voltage Transformer, Surge Arrestor, SF6 to EHV Cable termination Module, SF6/Air termination module, SF6 to Oil Termination Module, Gas Monitoring Devices, Online PD Monitoring System, Pressure Switches etc. GIS shall be complete with all necessary terminal boxes, inspection windows, SF6 gas filling, interconnecting cabling & wirings, grounding connections, gas monitoring systems and pipings, trays, support structures. Hence, the scope shall include supply, erection and mounting of hardware and interconnecting cables between GIS to LCC and between LCC to LCC including Cable Trays, Tags, Glands, ferrules, Lugs etc, however cables beyond LCC panel shall be supplied and laid by BHEL under the supervision and input of the bidder.						
A.1	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Line GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme grid incomer GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to air bushing/ connection module are not included in this bay and these items are covered separately else where in the BOQ.	Set	2				
A.2	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Transformer GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme transformer GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to oil bushing/ connection module, surge arrester etc. are not included in this bay and these items are covered separately else where in the BOQ.	Set	4				
A.3	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Spare GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme spare GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 1 set- 1x3 phase disconnecter without maintenance grounding switch, complete with operating mechanism. (c) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (d) 1 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (e) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (f) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (g) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (h) Any other item required to complete the system in all respects but not limited to above. (i) GIS bus duct, SF6 to EHV cable connection module are not included in this bay and these items are covered separately else where in the BOQ.	Set	4				
A.4	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Buscoupler GIS bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme buscoupler GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase circuit breaker, complete with operating mechanism (b) 2 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (c) 3 no- 1 phase multi ratio current transformers as per CT VT parameters (d) 3 no- 1 phase multi winding voltage transformers with mechanical link as per CT VT parameters (e) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (f) Any other item required to complete the system in all respects but not limited to above.	Set	1				
A.5	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Bus Measurement Bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme bus measurement GIS bay, each set comprising of following but not limited to, (a) 1 set- 1x3 phase disconnecter with single maintenance grounding switch, complete with operating mechanism. (b) 3 no- 1 phase multi winding voltage transformers as per CT VT parameters (e) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (f) Any other item required to complete the system in all respects but not limited to above.	Set	2				
A.6	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Bus Earth Switch Bay	220kV, 50kA for 3 second, 2000A GIS double main bus scheme bus earth switch bay GIS bay, each set comprising of following but not limited to, (a) 2 set- 1x3 phase high speed make proof grounding switch, complete with operating mechanism. (b) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (c) Any other item required to complete the system in all respects but not limited to above.	Set	2				
A.7	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Extension Module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS extension module 1 phase, shall be as follows, but not limited to, (a) Between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS. (b) Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc It shall be in line with clause 5.n, 7, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Set	1				
A.8	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Bus Extension Module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS bus extension module 3 phase, shall be as follows, but not limited to, (a) Between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS. (b) Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc. It shall be in line with clause 5.n, 7, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Set	2				
A.9	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - GIS Surge Arrester Module with Surge Counter	220kV, 50kA for 3 second, 2000A GIS double main bus scheme GIS extension module, shall be as follows, but not limited to, between sections of bus bars, bus duct connections, and shall be used to create electrical connectivity considering the thermal expansion, accomodating of GIS Modules due to shifting of GIS bays, arising due to civil and architectural requirements or expansion joint in the building that houses GIS . Bidder shall consider the bus bar modules including the bellows/ compensators like lateral mounting units, Axial compensators, Parallel compensators, tolerance compensators and vibration compensators etc.	No	24				

PRICE BID SCHEDULE (ONLY FOR FOREIGN SUPPLIER)

BHEL ENQUIRY NO:
PROJECT: IOCL PANIPAT PROJECT
ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS

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1	2	3	4	5	6	7	8 = 5 X 7	9
A.10	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Gas Insulated Bus Duct	220kV, 2000A SF6 gas insulated GIS Bus duct shall include the following but not limited to, (a) 1 phase SF6 gas insulated bus duct to connect line GIS bay with SF6 to air bushing/ connection. (b) 1 phase SF6 gas insulated bus duct to connect transformer GIS bay with to SF6 to oil bushing/ connection of tranformer. (c) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. The total tentative length indicated is the sum of all 1 phase SF6 bus duct from respective bay to SF6 to air bushing/ connection/ SF6 to oil bushing/ connection. However, exact length shall be decided based on the details finalized during detailed engineering.	Mtr	600				
A.11	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to air bushing/ connection	Single phase 220kV , 2000A SF6 to Air Bushing shall be supplied for the air termination of the GIS shall be as per IEC. (a) Single phase ,400kV , 2500A , termination module for terminating GIS SF6 bus duct in Potheadyard. (b) Scope of supply shall be as per latest version of IEC . (c) Gas monitoring system, pressure relief device, busbar, insulator, expansion joint/ flexible connection etc. as required. (d) Barrier cones, mechanism box and other items as required. (e) Any other item required to complete the system in all respects but not limited to above.	No	6				
A.12	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to oil bushing/ connection	Single phase 220kV , 2000A SF6 to Air Bushing shall be supplied for the air termination of the GIS shall be as per IEC. (a) Single phase ,400kV , 2500A , termination module for terminating GIS SF6 bus duct in Potheadyard. (b) Scope of supply shall be as per latest version of IEC . (c) Gas monitoring system, pressure relief device, busbar, insulator, expansion joint/ flexible connection etc. as required. (d) Barrier cones, mechanism box and other items as required. (e) Any other item required to complete the system in all respects but not limited to above.	No	12				
A.13	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 to EHV cable GIS connection module	220kV, 50kA for 3 second, 2000A GIS double main bus scheme SF6 to EHV cable GIS connection module 1 phase, shall be as follows, but not limited to, (a) It shall be of the plug-in type with dry-type or fluid-filled terminations. The interfaces conform to IEC standards. A removable link, which disconnects and isolates the GIS from the cable during high-voltage test for convenience and ease of operations shall also be provided. (b) Termination kit for fixing of cable shall also be provided in line with IEC62271-209. (c) PD sensors, gas monitoring device, pressure relief device, busbar, insulator, expansion joint/ flexible, insulators etc. as required. (d) Any other item required to complete the system in all respects but not limited to above.	No	36				
A.14	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Local Control Centre (LCC)	Local Control Centre (LCC) for each bay shall include the following but not limited to, (a) Line GIS bay- 2 set (b) Transformer GIS bay- 4 set (c) Spare GIS bay- 4 set (d) Buscoupler GIS bay- 1 set Bidder shall meet the requirement of LCC for the complete GIS System in minimum 11 nos of LCC, however exact no LCC shall be decided during detailed engineering. and hence any additional requirement during detailed engineering shall not be payable.	Lot	1				
A.15	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - SF6 gas required for placing GIS into successful operation	First filling of SF6 gas for the equipment supplied plus an additional quantity sufficient for conducting all the tests on equipment at site before placing it into successful operation.	Lot	1				
A.16	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Structure Materials for support of GIS, Bus Ducts, SF6 to oil bushing/ connection and SF6 to air bushing/ connection including Foundation Bolts, Embedded Items, Rails and/ or other items structural items required	Structure Materials for support of GIS, Bus Ducts, SF6 to oil bushing/ connection and SF6 to air bushing/ connection including Foundation Bolts, Embedded Items, Rails and/ or other items structural items required. All steel structure members shall be hot-dip galvanized after fabrication. Unless otherwise specified, minimum mass of zinc coating for Galvanizing shall be 610 gm/square meter. All field assembly joints shall be bolted. Field welding shall not be acceptable. Noncorrosive metal or plated steel shall be used for bolts and nuts throughout the work. Manufacturer shall provide suitable foundation channels and anchor bolts to support the switchgear assemblies. All mounting bolts, nuts and washers shall be provided to fasten the switchgear base frames to the foundation channels. In addition to above, supports, platforms, foundation bolts, embedded parts in floors etc., are also included in the scope as per the specification, but not limited to the following, (a) Base Plate, Channel, Metallic / Structural Member for seating of GIS system (b) Lattice / Pipe structure required for GIS bay, GIB,SF6 to oil bushing/ connection and SF6 to air bushing/ connection. (c) Foundation bolt / Anchor Fastening bolts for GIS system, if required. (d) Equipment fixing hardware. (e) Cable tray arrangement (mounted on structures of) GIS bay, GIB,SF6 to oil bushing/ connection and SF6 to air bushing/ connection. (f) Any other structural item required to complete the system in all respects but not limited to above. It shall be in line with clause 8.19, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1				
A.17	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Complete Earthing Materials including High Frequency Earthing	Earthing Materials, except 40mm MS rod,75x12mm / 50x6 GI Flat, which shall be provided by BHEL as free issue item (FIM), however, exact requirement shall be intimated by bidder based on the earthing philosophy approved, and Supervision of erection of all earthing connection for GIS to Earth Mesh on Floor shall be scope including any special requirements including high frequency earthing. In case, high frequency earthing is not required, necessary design and calculations shall be submitted by bidder. It shall be in line with clause 8.25, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1				
A.18	Supply- GIS: 220kV, 50kA for 3 second, 2000A GIS double main bus scheme - Consumables for GIS system	All consumables including grouting material and chemicals for the chemical anchors bolts etc., if applicable for GIS system shall be provided by bidder, however, in case of consumables with shelf life less than six months shall be supplied with special permission and intimation from BHEL.	Lot	1				
B	Supply: Maintenance Equipment	Maintenance Equipment shall be shipped in separate containers, clearly marked with the name of the equipment for which they are intended. However, Breaker Timing Measurement Kit shall be brought by bidder during commissioning on returnable basis.						
B.1	Supply: Maintenance Equipment- Dew Point Measurement Meter	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.2	Supply: Maintenance Equipment- SF6 Leakage Detector Meter	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.3	Supply: Maintenance Equipment- Precision Pressure Gauge	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.4	Supply: Maintenance Equipment- Gas recovery unit with required accessories	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.5	Supply: Maintenance Equipment- SF6 gas purity detector/ analyzer for SO2, H2O, CF4, AIR etc.	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.6	Supply: Maintenance Equipment- Online Portable PD analyzer/ measurement kit suitable for GIS along with required accessories	Online Portable PD analyzer/ measurement kit shall be compatible for PD measurement for GIS and Power Transformer system. It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.7	Supply: Maintenance Equipment- Air/ gas humidity tester	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				

PRICE BID SCHEDULE (ONLY FOR FOREIGN SUPPLIER)

BHEL ENQUIRY NO:
PROJECT: IOCL PANIPAT PROJECT
ITEM: 220KV GIS & ASSOCIATED EQUIPMENTS

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1	2	3	4	5	6	7	8 = 5 X 7	9
B.8	Supply: Maintenance Equipment- A mobile SF6 gas treatment plant, which shall be suitable for draining, filtration/ purification and refilling the equipment shall be provided. The plant shall have storage capacity for at least two of the largest switchgear compartments and shall be supplied with complete accessories such as vacuum pump, pressure gauge, valves, hoses, couplings, adaptors, etc., necessary for evacuating and filling, together with storage facilities for these items. Maintenance Equipment- A SF6 Gas maintenance cart, which shall be easily moved by one (1) person, shall be provided with enclosed storage facilities for proper storage of cylinders and other accessories including power leads. The enclosed storage shall have facilities for padlocking	It shall be in line with clause 8.18, 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.9	Supply: Maintenance Equipment- A two wheel gas maintenance cart fitted with a cylinder of SF6 gas, a vacuum pump, a vacuum and pressure gauge and all necessary valves, hoses and couplings for evacuating and filling the switchgear	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.10	Supply: Maintenance Equipment- SF6 gas leakage test equipment shall be suitable for testing SF6 gas as per recommendations of IEC 60376. a. Instruments for automatic and continuous monitoring for the presence of SF6 gas in the atmosphere of the switchgear room shall be provided. The recommended positions, exact number of detectors, type of mounting, facilities for alarm etc. shall be indicated during the drawing approval stage. b. Each set of analyser shall comprise of: i. SO2 content in SF6 gas ii. Purity of SF6 gas iii. SF6 gas moisture content	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Nos	1				
B.11	Supply: Maintenance Equipment- All special tools required for the purpose of installation, maintenance, overhauling and testing of GIS and also for the measurement of moisture in SF6.	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Lot	1				
B.12	Supply: Maintenance Equipment- Any other special tools and tackles required for proper maintenance of GIS units has to be supplied by the bidder	It shall be in line with clause 8.24, Section-2 of technical specification and mentioned elsewhere in Technical Specification. It shall be of reputed make, however make and model shall be subject to detailed engineering.	Lot	1				
C	Supply Item: Mandatory SPARES							
C.1	Supply: Mandatory Spares- Spare SF6 gas required for the complete GIS	1 Lot= 10% of the total quantity. This spare quantity shall be supplied in non-returnable containers in ready to use condition.	Lot	1				
C.2	Supply: Mandatory Spares- Handle for dis-connector switch drive		No	4				
C.3	Supply: Mandatory Spares- Handle for earthing switch drive		No	4				
C.4	Supply: Mandatory Spares- Pre selection key for three position switch		No	1				
C.5	Supply: Mandatory Spares- Tripping coil		No	4				
C.6	Supply: Mandatory Spares- Closing coil		No	4				
C.7	Supply: Mandatory Spares- Capacitive type voltage detectors		Set	1				
C.8	Supply: Mandatory Spares- Control fuses / MCB	1 Set = 10 no of each type and rating	Set	1				
C.9	Supply: Mandatory Spares- Density monitoring device	1 Set= 2 no of each type	Set	1				
C.10	Supply: Mandatory Spares- Pressure Gauge	1 Set= 2 no of each type	Set	1				
C.11	Supply: Mandatory Spares- Indicating lamps covers	1 Set- 5 no of each colour	Set	5				
C.12	Supply: Mandatory Spares- Indicating lamps	1 Set= 20% or 3 no (min), whichever is more	Set	1				
C.13	Supply: Mandatory Spares- Spring charging motor assembly with gear system	1 Set= 2 no of each type	Set	1				
C.14	Supply: Mandatory Spares- PT of GIS system	1 Set= 2 no of each type	Set	1				
C.15	Supply: Mandatory Spares- CT of GIS system	1 Set= 2 no of each type	Set	1				
C.16	Supply: Mandatory Spares- Isolator power and auxiliary contact		Set	1				
C.17	Supply: Mandatory Spares- Isolator operating motor/ SOV assembly		Set	1				
D	Supply: Operation & Maintenance Spares	Bidder to quote BOQ for recommended spares for two years of normal operation & maintenance from the date of commissioning. Bidder shall quote recommended spares for two years of normal operation & maintenance from the date of commissioning. In case of no such requirement, bidder shall submit the certification stating that " We do not hereby recommend any operation & maintenance spares for the period of two years from the date of commissioning, however in case of such requirement in future, same shall be supplied free of cost."	Lot	1				
I	Supply: GIS- Any item(s) required for completion of project but not covered in Supply Items	Any supply item(s) required for completion of GIS sytem, but not covered above shall be covered in bidder's scope.	Lot	1				
G	Supply: Unit reference price of GIS part item/ equipment	GIS part item/ equipment shall be required for supply as a mandatory spares or any addition/ deletion of equipment, due to damage, theft, additional requirement by customer during detailed engineering or later stage. It is to be ensured by bidder that unit prices have a logical relationship with prices of assemblies in main items (Bay, Busbar etc). The reference prices shall be used for breakup rates, if required at any stage. The reference prices shall be considered for evaluation.						
G.1	Supply: Unit reference price of GIS part item/ equipment: 220kV , 2000A Circuit Breaker	1 Set= 1 No of each rating and type with one poles with enclosure & without operating mechanism	Set	1				

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G.2	Supply: Unit reference price of GIS part item/ equipment- 220kV , 2000A Disconnecter with Maintenance Earthing Switch	1 Set= 1 No of each rating and type with all three poles with enclosure & without operating mechanism	Set	1				
G.3	Supply: Unit reference price of GIS part item/ equipment- 220kV , 2000A Disconnecter without Maintenance Earthing Switch	1 Set= 1 No of each rating and type with all three poles with enclosure & without operating mechanism	Set	1				
G.4	Supply: Unit reference price of GIS part item/ equipment- 220kV , 2000A Fast acting make proof grounding switch/ High speed make proof grounding switch		Set	1				
G.5	Supply: Unit reference price of GIS part item/ equipment- Surge Arrestor including Surge Counter (Rated arrester voltage – 198kV)	1 Set= 1 No of each rating and type with enclosure. Rated voltage may be changed after insulation coordination study.	Set	1				
G.6	Supply: Unit reference price of GIS part item/ equipment- 220kV Current Transformer	1 Set= 1 No of each rating and type with enclosure	Set	1				
G.7	Supply: Unit reference price of GIS part item/ equipment- 220kV Voltage Transformer	1 Set= 1 No of each rating and type with enclosure	Set	1				
G.8	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism for Circuit Breaker	1 Set= 1 No of each rating and type	Set	1				
G.9	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism box for Disconnecter with Maintenance earthing switch	1 Set= 1 No of each rating and type	Set	1				
G.10	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism box for Disconnecter without Maintenance earthing switch	1 Set= 1 No of each rating and type	Set	1				
G.11	Supply: Unit reference price of GIS part item/ equipment- Operating Mechanism for Fast acting make proof grounding switch/ High speed make proof grounding switch	1 Set= 1 No of each rating and type	Set	1				
G.12	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 Phase bus bar conductor		Mtr	1				
G.13	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 phase GIS metallic enclosure for bus bar/ any equipment		Mtr	1				
G.14	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 Phase conductor for bus duct		Mtr	1				
G.15	Supply: Unit reference price of GIS part item/ equipment- 220kV, 1 phase GIS metallic enclosure for bus duct		Mtr	1				
G.16	Supply: Unit reference price of GIS part item/ equipment- Gas permeable/ communication/ barrier type Insulator	1 Set= 1 No of each rating and type	Set	1				
G.17	Supply: Unit reference price of GIS part item/ equipment- Gas non- permeable/ non - communication/ non-barrier type Insulator	1 Set= 1 No of each rating and type	Set	1				
G.18	Supply: Unit reference price of GIS part item/ equipment- PD sensor	1 Set= 1 No of each rating and type	Set	1				
G.19	Supply: Unit reference price of GIS part item/ equipment- Pressure/ density monitor monitor device & Switch	1 Set= 1 No of each rating and type	Set	1				
G.20	Supply: Unit reference price of GIS part item/ equipment- Pressure relief device	1 Set= 1 No of type	Set	1				
G.21	Supply: Unit reference price of GIS part item/ equipment- Rupture disc	1 Set= 1 No of type	Set	1				
G.22	Supply: Unit reference price of GIS part item/ equipment- Elbow/ bend/ cross and T section	1 Set= 1 No of type	Set	1				
G.23	Supply: Unit reference price of GIS part item/ equipment- Expansion joint	1 Set= 1 No of type	Set	1				
G.24	Supply: Unit reference price of GIS part item/ equipment- Flexible connections	1 Set= 1 No of type	Set	1				
G.25	Supply: Unit reference price of GIS part item/ equipment- Gas seals	1 Set= 1 No of type	Set	1				
E	Service: GIS- Supervision of Erection, Testing & Commissioning and handing over to Customer	These activities shall be carried out at site in stages as per requirement or front availability at site, and hence multiple visits for completion of work are envisaged.						
E.1	Service: GIS- 220KV, Site visit for supervision of unloading & verification of GIS materials for proper storage and up-keeping at site	Site visit for supervision of unloading & verification of materials for proper storage and up-keeping at site includes following activities but not limited to, (a) Supervision of safe unloading of GIS & its accessories at site. (b) Reconciliation, storage & upkeeping of materials, with due instructions/ training to site persons for long storage.	Lot	1				
E.2	Service: GIS- 220KV, Supervision of erection of GIS bays including LCC	Supervision of complete GIS bays along with all bay equipment such as GIS extension module, GIS bus extension module, surge arrester, voltage transformer, LCC including structure, cabling, earthing & other associated activities shall be included in the scope.	Lot	1				
E.3	Service: GIS- 220KV, Supervision of erection of GIS- For gas insulated bus duct	Supervision of complete GIS bays along with all bay equipment including support structure, earthing & other associated activities shall be included in the scope.	Mtr	600				

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E.4	Service: GIS- 220KV, Supervision of erection of GIS- SF6 to air bushing/ connection	Supervision of erection of GIS- SF6 to air bushing/ connection including support structure, earthing & other associated activities shall be included in the scope.	No	6				
E.5	Service: GIS- 20KV, Supervision of erection of GIS- SF6 to oil bushing/ connection	Supervision of erection of GIS- SF6 to oil bushing/ connection including support structure, earthing & other associated activities shall be included in the scope.	No	12				
E.6	Service: GIS- 220KV, Supervision of erection of GIS- SF6 to EHV cable GIS connection module	Supervision of erection of GIS- SF6 to EHV cable GIS connection module including support structure, earthing & other associated activities shall be included in the scope.	No	36				
E.7	Service: GIS- 220KV, Testing & commissioning of GIS bays including LCC	Testing & commissioning of complete GIS bays including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	Lot	1				
E.8	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to air bushing/ connection	Testing & commissioning of complete GIS- SF6 to air bushing/ connection including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	6				
E.9	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to oil bushing/ connection	Testing & commissioning of GIS- SF6 to oil bushing/ connection including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	12				
E.10	Service: GIS- 220KV, Testing & commissioning of GIS- SF6 to EHV cable GIS connection module	Testing & commissioning of GIS- SF6 to EHV cable GIS connection module including other associated activities in line with site acceptance testing as per customer approved SAT procedure shall be in bidder's scope.	No	36				
E.11	Service: GIS- 220KV, Testing & commissioning of GIS- Final Successful High Voltage/ Power Frequency Testing of complete GIS	Carrying out successful HV/ Power Frequency Testing of GIS as per IEC including Arrangement of HV Test kit (on returnable basis) shall be in scope of bidder, which includes charges HV test kit with operator, accessories & tools required for completion of HV testing. Bays may be commissioned separately. No delay shall be permitted on account of the non availability of the HV test kit.	Lot	1				
E.12	Service: GIS- 220KV- Insulation Co-ordination Studies for GIS System	Insulation co-ordination activities shall in bidder's scope. In case of non availability of exact input details, same shall be done be done on basis of standard inputs available and shall be revised after availability of exact input details.	Lot	1				
E.13	Service: GIS- 220KV- Final Documentation	Final Documentation including As Built Drawing/ Document, Site Testing Reports/ Protocols, Handing over proptcols along with manuals shall be submitted etc. by bidder.	Lot	1				
F	Services: Training							
F.1	Service: Training- Training for GIS of 12 no Engineers (10 no customer engineers+2 no BHEL engineers) for a period of at least 7 working days at Manufacturer's works	It shall be in line with clause 13, Section-2of technical specification and mentioned elsewhere in Technical Specification.	Lot	1				
F.2	Service: Training- Training for GIS of 12 no Engineers (10 no customer engineers+2 no BHEL engineers) for a period of at least 7 working days at project site	It shall be in line with clause 13, Section-2 of technical specification and mentioned elsewhere in Technical Specification.	Lot	1				
J	Service: GIS- Any service(s) required for completion of project but not covered in service Items	Any service item(s) required for completion of GIS sytem, but not covered above shall be covered in bidder's scope.	Lot	1				
H	Service: Unit reference price of GIS part item/ equipment							
H.1	Service: Unit reference price of GIS part item/ equipment- Services of supervision for Erection of GIS	Services of supervision for Erection of GIS	Manday	1				
H.2	Service: Unit reference price of GIS part item/ equipment- Services of Testing & Commissioning of GIS	Services of Testing & Commissioning of GIS	Manday	1				
H.3	Service: Unit reference price of GIS part item/ equipment- Hiring charges of HV test kit with operator	Additional HV test kit charges including charges of operator, HV test kit, accessories & tools required for completion of HV test (Dielectric Test after installation of GIS). HV test kit charges include one or more bay at site.	Lot	1				
			TOTAL ITEMS	1493				
		TOTAL CIF VALUE (SUPPLY + SERVICES) =						
		[EVALUATION WILL BE DONE ON TOTAL COST TO BHEL UPTO DESTINATION EXCLUDING GST VALUE BY ADDING COST OF CUSTOM DUTY CHARGES & INLAND F & I CHARGES]						

NOTE:
1. Discharge Port: CHENNAI PORT.
2. Total CIF value (supply+ Service) is exluding Custom duty, handling charges at discharge port, inland F&I charges, taxes applicable in India and other loading charges . Bidder may opt custom clearance, handling charges at discharge port & inland F & I Charges in their scope else BHEL will load the prices for the same for evaluation.
3. Nos of package with DIMENSIONS AND TYPES OF CARGO (Break Bulk/LCL/FCL) and no. of container (with type of container) required-Is also to be mentioned by bidder.
4. Bidder has to mention "quoted" (in each applicable cell) in unpriced bid. In case that cell is Not Applicable, "NA" must be mentioned in that particular cell. Prices shall be mentioned in Price bid schedule only.
5. Bidder strictly to quote as per BHEL format only. Other format of price bid will be liable for rejection.
6. Bidder to quote strictly as per BoQ. Rates/prices shall not be combined. In case, the charges/prices are combined, BHEL reserves the right to reject the offer. Decision of BHEL shall be final.
7. Taxes outside India shall be in scope of bidder and deemed to be included in their quoted price.
8. It is certified that. We (M/s) have quoted as per the specified price format of the tender. otherwise our offer shall be liable for relection.

NAME AND SEAL OF TENDERER