

Tender Notification for
SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF CABLE
FAULT LOCATOR MACHINE
EHV (66KV)- 1NO. &
11KV & LT CABLE- 1 NO.

NIT No.: CMC/BY/25-26/RS/SkS/ASR/30
[RFx Number: 2200000158]

Date of Tender: 10.12.2025

Due Date for Submission: 30.12.2025, 15:00 Hrs

BSES YAMUNA POWER LIMITED (BYPL)
CONTRACTS & MATERIALS DEPT.,
SHAKTI KIRAN BUILDING, KARKARDOOMA,
DELHI-110032

CIN: U40109DL2001PLC111525

WEBSITE: www.bsesdelhi.com

GSTIN: 07AABCC8569N1Z0

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VOLUME – I

**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF
CABLE FAULT LOCATOR MACHINE
EHV (66KV)- 1NO.
11KV & LT CABLE- 1 NO.**

CMC/BY/25-26/RS/SKS/ASR/30

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SECTION – I: REQUEST FOR QUOTATION

1.00 Event Information

- 1.01 BSES Yamuna Power Ltd (hereinafter referred to as "**BYPL**") invites sealed bids under single stage two Part sealed envelope bidding system for establishing "SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF CABLE FAULT LOCATOR MACHINE" from reputed manufacturers. The bidder must qualify the technical requirements as specified in clause 2.0 stated below. All envelopes shall be duly super scribed "**SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF CABLE FAULT LOCATOR MACHINE**" vide "**NIT NO. CMC/BY/25-26/RS/SKS/ASR/30 [RFx Number:2200000158] DUE DATE FOR SUBMISSION ON 30.12.2025, 15:00 Hrs**".

Sl. No.	Item Description	Technical Specification	Estimated Cost (INR)	Cost of EMD (INR)	Quantity	Delivery at
1.	SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF CABLE FAULT LOCATING MACHINE WITH VAN FOR EHV (66 KV)	BSES-TS-166-CFLHV-R0	395 Lakh	5.08 Lakh	As per BOQ in Price format	FOR, DELHI STORES, BYPL
2.	SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF CABLE FAULT LOCATING MACHINE WITH VAN FOR 11 KV AND LT CABLE	BSES-TS-166-CFLHV-R0	113.5 Lakh		As per BOQ in Price format	FOR, DELHI STORES, BYPL
TOTAL			508.50	5.08 Lakh		

The Bid shall be submitted in two (02) parts. Details of the part are as follows

Part A – Techno Commercial Bid

Part B – Price Bid

- 1.02 The tender documents (schedule of specifications with detail terms & conditions) can be obtained from address given below against submission of non-refundable demand draft of Rs **1,180/-** drawn in favour of BSES Yamuna Power Ltd, payable at Delhi or Online transfer of the requisite amount through IMPS/ NEFT/ RTGS. The tender document is also available for download from the website www.bsesdelhi.com --> **BSES YAMUNA POWER LTD --> Tender --> Open Tenders .**

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In case the tender is downloaded from the above website, then the bidder has to enclose a demand draft or online transfer of the requisite amount through IMPS/ NEFT/ RTGS covering the cost of bid documents.

TIME SCHEDULE

The bidders should complete the following within the dates specified as under :

S. no.	Events	Due Date & Time
1.	Date of availability of tender documents from BYPL Website & SRM	Till 10-12-2025 upto 15:00 Hours
2.	Date & Time of Pre-Bid Meeting Pre-Bid Meeting will be done online, Register in advance for this meeting via, the Teams Meeting link: https://teams.microsoft.com/meet/49940633562383?p=rPb8zY4ivKlu584Qsx After registering, you will receive a confirmation email containing information about joining the meeting.	19-12-2025 15:00 hours
3.	Last Date of receipt of pre-bid queries, if any (Queries to be submitted via e-mail)	22-12-2025.
4..	Last Date of replies to all the pre-bid queries as received	24-12-2025.
5.	Last date and time of receipt of Complete Bids (Tender Fees, EMD, Part A & Part B)	26-12-2025 upto 15:00 Hours
6..	Date & Time of Opening of PART A – EMD and Technical Bid	30-12-2025 upto 16:00 Hours
7.	Date & Time of opening of Price/RA of qualified bids	Will be notified to the qualified bidders through our website/e-mai

Note: In the event of the last date specified for submission of bids and the date of opening of bids is declared as a closed holiday for the BSES office, the last date of submission of bids and date of opening of bids will be the following working day at the appointed times.

1.03 The Bid shall be submitted online in two (02) parts. Details of the parts are as follows:

Part A – Techno Commercial Bid

Part B – Price Bid

Bids will be submitted online and received up to **30.12.2025, 15:00 Hr.** at the address given below.

Part A of the Bid shall be opened online on **30.12.2025, 16:00 Hr.**

Part B of the Bid will be opened in case of Techno-Commercially Qualified Bidders and the date of opening of same shall be intimated in due course. It is the sole responsibility of the bidder to ensure that the bid documents are submitted online and reach this office on or before the last date.

Head of Department

Contracts & Materials Department

BSES Yamuna Power Ltd

3rd Floor, A Block

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**Shaktikiran Building, Karkardooma
Delhi 110032.**

1.04 BSES Yamuna Power Ltd reserves the right to accept /reject any or all the bids without assigning any reason thereof in the event of following :

- a. Tender is received after bid submission due date and time.
- b. Tender fee of requisite value is not paid.
- c. Earnest Money Deposit (EMD) of requisite value & validity is not deposited in the form of Bank Guarantee drawn in favour of BSES Yamuna Power Limited payable at Delhi or Online transfer of requisite amount through NEFT/RTGS for EMD amount.
- d. Price Bid as per the Price Schedule format mentioned in Annexure-III not submitted.
- e. Incomplete Bids.
- f. Necessary documents against compliance to Qualification Requirements mentioned at Section 1, Clause 2.0 of this Tender Document not submitted.
- g. Complete Technical details are not enclosed as per the Technical Bid Submission Checklist.
- h. Schedule of Deviations if any, not filled in properly as per Annexure-V.

2.0 Qualification Criteria:-

The prospective bidder must meet all of the following qualifying criteria to be eligible to participate in the bidding.

TECHNICAL:

SL	Criteria	Documents Required along with Bid
1.	The Bidder shall be either of the following: a. An original equipment manufacturer (OEM) of the offered equipment. (OR) b. The Bidder should be authorized supply partner as on the date of the tender with an authority to sell, supply, service and maintain the proposed equipments.	i) Details of manufacturing facilities, locations and works from where supply against this tender is proposed. ii) In case bidder is an authorized partner of OEM, Manufacturer Authorization Form (MAF) in the format specified in tender document stating that 'Bidder is an authorized partner of OEM and authorized to participate in this tender and in case the bidder is not able to perform obligations as per contract during the contract period, contracted services will be provided by OEM within the stipulated time iii) Manufacturing unit registration certificate.
2.	The bidder must have supplied atleast 5 nos of Cable Fault Locator equipment of 66kV or higher offered rating in the last five (05) years from the Bid submission date to any utilities /SEB's/ PSU's / Govt Undertaking reputed company wherein the end user shall be utilities/ SEB's / PSU's/ Govt Undertaking..	(i) PO Copies for supply of offered/higher rated Cable Fault Locator. (ii) Delivery Completion certificate. (iii) OEM's credentials will also be considered against this QR in case bidder is an authorized supply partner
3.	The Bidder should have atleast 5 years of experience in design and manufacturing of similar product for Cable fault locator	(i) PO Copies for supply of offered/higher rated Cable Fault Locator. (ii) Delivery Completion certificate. (iii) OEM's credentials will also be considered

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		against this QR in case bidder is an authorized supply partner
4.	<p>Performance certificate for minimum 1 year satisfactory performance for Cable Fault Locator equipment of 66kV or higher offered rating equipment atleast 2no. in last 7 years from the date of bid opening from at least two utilities/ SEB's/PSU's/Govt Undertaking/State electricity board.</p> <p>In case the bidder has previously been associated with BRPL/BYPL for similar product and service, the performance feedback for that bidder by BRPL/BYPL can also be considered irrespective of performance certificate issued by any third organization.</p>	<p>(i). Performance Certificate linked with PO copy of offered rated Cable Fault Locator.</p> <p>(ii). PO Copies of the offered rating of Cable Fault Locator.</p> <p>(iii). OEM's credentials will also be considered against this QR in case bidder is an authorized supply partner.</p>
5.	<p>(i). Bidder should have established permanent office and Service Center in Delhi NCR equipped with in-house testing facilities for trouble shooting and technical support.</p> <p>(ii). Service center shall have repair capability for the offered product.</p>	Details of OEM /OEM Authorized support and service centers and its capabilities.
6.	OEM shall ensure product support and service for at least 20 years from the date of commissioning and handing over of the equipment.	Undertaking on OEM's letter head.

COMMERCIAL:

SL	Criteria	Documents Required
1.	Bidder (OEM) should have Average Annual Sales Turnover of Rs 10 Crores or more in the last three (03) Financial Years (i.e. FY 2022-23 & 2023-24 and 2024-25).	Audited balance sheets / Duly certified CA certificate with UDIN to be submitted.
2.	The Bidder shall submit an undertaking that "No Litigation" is pending with BYPL or its Group/Associates Companies.	Self Undertaking on letter head.
3.	An undertaking (self-certificate) that the bidder has not been blacklisted/debarred by any central/state government institution/Electricity utilities.	The firm shall submit a self-undertaking of non-blacklisting by central/state government institution/Electricity utilities.
4.	An undertaking (self-certificate) that there are no pending proceedings against the bidder under the Insolvency and Bankruptcy Code, 2016 ("IBC").	The firm shall submit a self-undertaking of no ongoing/pending proceedings against the company.
5.	The bidder must have valid PAN No., GST Registration Number, in addition to other statutory compliances. The bidder must submit the copy of registrations and submit an undertaking that the bidder shall comply with all the statutory compliances as per the laws/rules etc. before the start of the supply/work. In case of MSME bidder, the bidder must submit a copy of MSME Certificate.	<p>i. Relevant Statutory Documents i.e Copy of GST Registration certificate, PAN No. and MSME certificate if applicable.</p> <p>ii. Self Undertaking on letter head.</p>
6.	Bidder shall provide comprehensive warranty of 5 years from supply, installation, commissioning and handing over for the offered cable fault locator equipments.	Acceptance on OEM/Authorized supply partner letter head.

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Note: i) One successful demonstration of the offered product/equipment after bid submission covering all the factors shall be given by bidder/OEM at BYPL Site/Offices during technical evaluation process of the tender and shall remain mandatory part of the tender post intimation to the bidder's/OEM.
ii) Training to be provided by the successful bidder for the supplied equipment post award of contract for atleast 2 to 3 months in tracing cable faults at BYPL Site/Project/Designated locations.

The bidder must not withstanding anything stated above, the Purchaser reserves the right to assess bidder's capability to perform the contract, should the circumstances warrant such assessment in the overall interest of the purchaser. In this regard the decision of the purchaser shall be final.
In case of new bidders (not enlisted in BSES), Factory inspection & evaluation shall be carried out to ascertain bidder's manufacturing/supply capabilities and quality procedures.

3.00 Bidding and Award Process

Bidders are requested to submit their offer strictly in line with this tender document. **NO DEVIATION IS ACCEPTABLE.** BYPL shall respond to the clarifications raised by various bidders and the same will be distributed to all participating bidders through website.

3.01 BID SUBMISSION

FOR BIDS INVITED THROUGH E-PROCUREMENT PORTAL:

BSES will carry out E-Procurement through its e-procurement portal (<https://srmpportal.bsedelhi.com:50001/iri/portal>).

Interested Non-registered bidders are requested to obtain the portal user name and password (if not available) for bid submission. For participating in e-Tenders of BYPL, please write a mail to

1. Mr Rakesh Sharma, E-mail: Rakesh.Ku.Sharma@reliancegroupindia.com,
2. Mr Ajay Rajput E-mail: Ajay.s.raiput@reliancegroupindia.com, with your details as per below:

- a) Existing Vendor Code with BYPL or its Group/Associates Companies (if available):
- b) Trade Name:
- c) Address of Principal Place of Business:
- d) Contact Person's Name:
- e) Contact Person's Designation:
- f) Contact Person's Mobile No.:
- g) Contact Person's email ID:
- h) Also, attach a valid copy of Power of Attorney in favour of mentioned Contact Person for being authorized to receive user ID and password on behalf of their organization.

The login ID details shall be sent through email to the email ID mentioned by you for the same.

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Bids shall be submitted in 2 (Two) parts on the assigned folder of the e-procurement site. Please refer to the user manual available at <https://srmpdportal.bsesdelhi.com:50001/irj/portal> and enclosed with the tender.

Bids have to be mandatorily submitted only through the e-procurement portal of BSES Delhi. Bids submitted through any other form/ route shall not be admissible. However, documents that necessarily have to be submitted in originals like EMD or Tender Fee (in the form of BG/ DD as applicable) and any other documents mentioned in the tender documents have to be submitted at the BYPL office before the due date & time of submission.

Please mention our NIT Number: - on the Tender and drop the same in our Tender Box placed at **BSES Yamuna Power Ltd, Reception, Ground Floor, Shaktikiran Building, Karkardooma, Delhi 110032**

The bidders are required to submit the bids in 2 (two) parts sealed envelopes viz. containing Part-A (Technical & Commercial Bid) & Part-B (Price Bid) and shall be addressed to the following address.

**Head of Department
Contracts & Materials,
BSES Yamuna Power Ltd,
3rd Floor, A Block,
Shaktikiran Building, Karkardooma
Delhi 110032**

PART A : TECHNICAL BID comprising of following

Sr. No	Descriptions	Type of Documents
1	Tender Fee - Demand Draft (Rs.1180/-) (Incl GST)	Non-refundable demand draft or online transfer of the requisite amount through IMPS/ NEFT/ RTGS for Rs 1180/- in case the forms are downloaded from the website
2	EMD	EMD for an amount of Rs. 5.08 lakh in the prescribed stamp paper & format enclosed at ANNEXURE – II
3	Power-of-Attorney	In the standard stamp paper & format
4	Cover Letter	Standard Format
5	Index for Part-A (Technical Bid)	In the prescribed format enclosed at ANNEXURE – IX
6	Technical Bid Submission Check List	In the prescribed format enclosed at ANNEXURE – XII
7	PQR Compliances	Documentary evidence in support of qualifying criteria mentioned in Section 1 Clause 2.00

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Sr. No	Descriptions	Type of Documents
8	Signed Tender document	Original Tender documents duly stamped & signed on each page as a token of acceptance
9	Commercial Terms and Conditions	Acceptance on Commercial Terms and Conditions viz Delivery schedule/period, Payment terms, PBG etc. format enclosed in APPENDIX II
10	Bid Form (Unpriced) Duly Signed	Duly Signed Bid Form as per enclosed format at ANNEXURE – I
11	Acceptance of Reverse Auction	Duly signed Acceptance Form For Participation In Reverse Auction Event as per enclosed format at ANNEXURE – VII
12	Undertakings	Duly signed self-undertakings as per enclosed format at ANNEXURE – X
13	Schedule of Deviations	Duly filled and signed as per enclosed format at ANNEXURE –V
14	Un price Bid Duly Signed	Duly Signed Un price Bid as per enclosed format at VOLUME – II - PRICE BID FORMAT ANNEXURE III
15	Technical Details/ Filled in GTP/Drawings	Bidder shall submit duly filled GTP with all Technical documents and Drawings.
16	Type Test Reports	Bidders shall submit a copy of type test reports in their technical bids in support of technical specifications
17	Testing Facilities	Bidder shall submit the details of testing facilities available at their works/factory.
18	Organization Chart & Manpower Details.	Bidder shall submit the details of Organization & Manpower with qualification and experience.

REVERSE AUCTION CLAUSE: Purchaser reserves the right to use the online reverse Auction through SAP – SRM as an integral part of the entire tendering Process. All the bidders who are techno-commercially qualified on the basis of tender Requirements shall participate in reverse auction. Notwithstanding anything stated above, the Purchaser reserves the right to assess Bidder's capability to perform the contract, should the circumstances warrant such Assessment in the overall interest of the purchaser. In this regard the decision of the Purchaser is final.

Acceptance form for participation in reverse auction event is also attached as annexure I.

4.00 Award Decision

4.01 The purchaser reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without any reason.

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4.02 Splitting of tendered quantity in two or more bidders: BYPL reserves the right to split the tender quantity amongst techno-commercially qualified bidders on account of delivery requirement in tender, quantity under procurement etc. If the quantity is to be split, quantity distribution shall be in the manner detailed below:

- a) If the quantity is to be split among 2 bidders, it will be done in the ratio of 70:30 on L1 price.
- b) If the quantity is to be split among 3 bidders, it will be done in the ratio of 50:30:20 on L1 price

4.03 In the event of your bid being selected by purchaser and you subsequent DEFAULT on your bid; you will be required to pay purchaser an amount equal to the difference in your bid and the next lowest bid on the quantity declared in NIT/RFQ.

4.04 In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and BYPL reserves the right to award other suppliers who are found fit.

4.05 **Quantity Variation:** The purchaser reserves the rights to vary the quantity by 30% of the tender quantity.

4.06 Bidders are requested to quote their lowest NO-REGRET prices.

4.07 Repeat Order: BYPL reserves the right to place repeat order at the same rates & terms & conditions as per this tender against additional requirement subject to mutual agreement between BYPL & Supplier.

5.0 Market Integrity

We have a fair and competitive marketplace. The rules for bidders are outlined in the Terms & Conditions. Bidders must agree to these rules prior to participating. In addition to other remedies available, we reserve the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the Terms & Condition. A bidder who violates the marketplace rules or engages in behavior that disrupts the fair execution of the marketplace restricts a bidder to length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- i. Failure to honor prices submitted to the marketplace.
- ii. Breach of the terms of the published in Request For Quotation/NIT.

6.0 Supplier Confidentiality

All information contained in this RFQ is confidential and shall not be disclosed, published or advertised in any manner without written authorization from BYPL. This includes all bidding information submitted.

All RFQ documents remain the property of BYPL and all suppliers are required to return these documents to BYPL upon request.

Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events.

7.0 Contact Information

Technical clarification, if any, as regards this RFQ shall be sought in writing and sent by post/courier to following address. The same shall not be communicated through email/phone. Any corrigendum/addendum/modifications in the tender documents shall be uploaded in website

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Address	Name/ Designation	E-mail Address
Technical		
CES Dept. 3 rd Floor, B-Block, BSES Yamuna Power Ltd Shaktikiran Building, Karkardooma, Delhi 110032	Vijendra Goyal (Manager- CES)	Vijender.Goyal@reliancegroupindia.com
	Amit As Tomar (Asst VP)	Amit.as.tomar@reliancegroupindia.com
Commercial		
C&M Dept. 3 rd Floor, A-Block, BSES Yamuna Power Ltd Shaktikiran Building, Karkardooma, Delhi 110032	Ajay Singh Rajput (Senior Manager- Procurement C&M)	Ajay.s.Rajput@reliancegroupindia.com
	Santosh Kumar Singh (Head-Procurement) (C&M)	Santosh.kum.Singh@reliancegroupindia.com
	Robin Sebastian (HOD-C&M)	Robin.Sebastian@reliancegroupindia.com

However, in case, any bidder has already submitted his bid, he may submit modified bid in view of the changes/modifications/corrigendum in the tender document within the stipulated due date of submission. The modified bid envelope shall be duly marked as "MODIFIED/AMENDED BID" along with a declaration that all old bids as "NULL AND VOID". Other formalities shall remain same.

SECTION – II: INSTRUCTION TO BIDDERS

1. GENERAL

- 1.00 BSES Yamuna Power Ltd, hereinafter referred to as "The Purchaser" are desirous of implementing the various Systems Improvement/Repair & Maintenance works at their respective licensed area in Delhi. The Purchaser has now floated this tender for procurement of material notified earlier in this bid document.

2.00 SCOPE OF WORK

- a. The scope shall include Design, Manufacture, Supply, Installation, Testing, Commissioning and maintenance of Cable fault locator machine at works conforming to the Technical Specifications/IS along with Packing, loading, forwarding, Transportation and unloading and proper stacking at Purchaser's stores/site.
- b. **Details of vehicle type, body size for mounting of Cable fault locator machine : Vehicle shall be provided by Vendor.**
- i) For 11 kV & LT Cable fault locator: Suitable Vehicle.
- ii) For 66 kV Cable fault locator: Suitable Vehicle.

**System should be fitted in a force traveler van or any equivalent Indian make.
Details for Vehicle- Dimension, Type, Model no, company and other details to be provided by vendor along with technical/price bid.**

Note :

- i) **One successful demonstration of the offered product/equipment after bid submission covering all the features shall be given by bidder/OEM at BYPL Site/Offices during technical evaluation process of the tender and shall remain mandatory part of the technical bid evaluation.**
- ii) **Hands on training to be provided by the successful bidder for the supplied equipment post award of contract for atleast 3 months in tracing cable faults at BYPL Site/Project/Designated locations.**

3.0 DISCLAIMER

- 3.01 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder/Bidding Consortium should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.
- 3.02 Neither Purchaser nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of Purchaser or its employees, or otherwise a

rising in anyway from the selection process for the Supply.

- 3.03 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy itself that Documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.
- 3.04 This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).

4.0 COST OF BIDDING

The Bidder shall bear all cost associated with the preparation and submission of its Bid and Purchaser will in no case be responsible or liable for those costs.

B. BIDDING DOCUMENTS

- 5.01 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering letter accompanying Bidding Documents, the Bidding Documents include:
- | | |
|--|----------------|
| (a) Request for Quotation (RFQ) | - Pg no. 4-12 |
| (b) Instructions to Bidders (ITB) | - Pg no. 12-20 |
| (c) Terms & Conditions of Contract (T&C) | -Pg no. 21-37 |
| (d) Delivery schedule | - Pg no. 37-38 |
| (e) Price Format | - Pg no. 42-43 |
| (f) Bid Form | - Pg no. 40 |
| (g) EMD BG Format | - Pg no. 41 |
| (h) Vendor code of conduct | - Pg no. 52-56 |
| (i) Technical Specifications (TS) | - (Volume-III) |
- 5.02 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and Specifications. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will may result in the rejection of the Bid.
- 6.0 **AMENDMENT OF BIDDING DOCUMENTS**
- 6.01 At any time prior to the deadline for submission of Bids, the Purchaser may for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by Amendment.
- 6.02 The Amendment shall be part of the Bidding Documents, pursuant to Clause 5.01, and it will be notified in web site www.bsesdelhi.com and the same will be binding on them.
- 6.03 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids. The same shall be published as a corrigendum in website www.bsesdelhi.com
- 6.04 Purchaser shall reserve the rights to following:-
- a) Extend due date of submission,

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- b) Modify tender document in part/whole,
- c) Cancel the entire tender

6.05 Bidders are requested to visit BYPL website regularly for any modification/corrigendum/addendum of the bid documents.

C. **PREPARATION OF BIDS** modification/clarification/corrigendum/addendum of the bid documents.

7.0 LANGUAGE OF BID

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

1.01 DOCUMENTS COMPRISING THE BID

The Bid prepared and submitted by the Bidder shall comprise the following components:

- (a) Bid Form, Price & other Schedules (STRICTLY AS PER FORMAT) and Technical Data Sheets completed in accordance with Technical Specification.
- (b) All the Bids must be accompanied with the required EMD as mentioned in the Section-I against each tender.
- (c) Tender documents duly stamped and signed on each page by authorized signatory.

9.0 BID FORM

9.01 The Bidder shall submit one "Original" and one "Copy" of the Bid Form and the appropriate Price Schedules and Technical Data Sheets duly filled in as per attached specification enclosed with the Bidding Documents.

9.02 EMD

Pursuant to Clause 8.0 (b) above, the bidder shall furnish, as part of its bid, an EMD amounting to as specified in the Section-I. The EMD is required to protect the Purchaser against the risk of Bidder's conduct which would warrant forfeiture.

The EMD shall be denominated in the currency of the bid, and shall be in the following form:

- (a) A bank guarantee issued by any scheduled bank strictly as per the form at enclosed and shall be valid for a period of 120 days from the due date of bid submission/as on extended bid submission date.
- (b) Unsuccessful bidders' EMD will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity.

The EMD may be forfeited in case of:

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(1) The Bidder withdraws its bid during the period of specified bid validity

Or

(b) The case of a successful Bidder, if the Bidder does not

(i) Accept the Purchase Order, or

(ii) Furnish the required performance security BG.

10.0 **BID PRICES**

10.01 Bidders shall quote for the entire Scope of Supply with a break-up of prices for individual items. The total Bid Price shall also cover all the Supplier's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, manufacturing, Supply, packing, loading, forwarding, Transportation, unloading at store(s) / site and in accordance with the technical specifications and requirement of Bidding Documents. The Bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total Price.

10.02 The prices offered shall be inclusive of all costs as well as duties, taxes and levies paid or payable during execution of the supply work, breakup of price constituents, should be there.

11.0 **BID CURRENCIES**

Prices shall be quoted in Indian Rupees Only.

12.0 **PERIOD OF VALIDITY OF BIDS**

12.01 Bids shall remain valid for 120 days from the due date/amended due date of submission of the Bid.

12.02 Notwithstanding Clause 12.01 above, the Purchaser may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and the responses thereto shall be made in writing and sent by post/courier

13.0 **ALTERNATIVE BIDS**

Bidders shall submit Bids, which comply with the Bidding Documents. Alternative Bids will not be considered. The attention of Bidders is drawn to the provisions regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the Bidding Documents.

14.0 **FORMAT AND SIGNING OF BID**

14.01 The original Bid Form and accompanying documents (as specified in Clause 9.0), clearly marked "Original Bid" plus one copy must be received by the Purchaser at the date, time and place specified pursuant to Clauses 15.0 and 16.0. In the event of any discrepancy between the original and the copies, the original shall govern.

14.02 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder

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or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Attorney accompanying the Bid.

- 14.03 The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.

D. SUBMISSION OF BIDS

15.0 SEALING AND MARKING OF BIDS

- 15.01 Bid submission: One original & one Copy (hard copies) of all the Bid Documents shall be sealed and submitted to the Purchaser before the closing time for submission of the bid.
- 15.02 The Technical Documents and the EMD shall be enclosed in a sealed envelope and the said envelope shall be super scribed with —“Technical Bid & EMD”. The price bid shall be inside another sealed envelope with superscribed “PRICE BIDS”. Both these envelopes shall be sealed inside another big envelope. All the envelopes should bear the Name and Address of the Bidder and marking for the Original and Copy. The envelopes should be super scribed with —“Tender Notice No. & Due date of opening”.
- 15.03 The Bidder has the option of sending the Bids in person. Bids submitted by Email/Telex/Telegram /Fax will be rejected. No request from any Bidder to the Purchaser to collect the proposals from Courier/Airlines/Cargo Agents etc. shall be entertained by the Purchaser.

16.0 DEADLINE FOR SUBMISSION OF BIDS

- 16.01 The original Bid, together with the required copies, must be received by the Purchaser at the address on or before the due date of submission.

17.0 ONE BID PER BIDDER

Each Bidder shall submit only one Bid by itself. No Joint Venture is acceptable. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

18.0 LATE BIDS

Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 16.0, will be declared “Late” and may be rejected

19.0 MODIFICATIONS AND WITHDRAWAL OF BIDS

- 19.01 The Bidder is not allowed to modify or withdraw its Bid after the Bid's submission subject to any corrigendum/addendum/modifications in the tender documents uploaded in website.

E. EVALUATION OF BID

20.0 PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of Bids and

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recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Purchaser's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

21.0 **CLARIFICATION OF BIDS**

To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

22.0 **PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS**

- 22.01 Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order. Purchaser may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.
- 22.02 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.
- 22.03 Prior to the detailed evaluation, Purchaser will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.
- 22.04 Bid determined as not substantially responsive will be rejected by the Purchaser and/or the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

23.0 **EVALUATION AND COMPARISON OF BIDS**

- 23.01 The evaluation of Bids shall be done based on the delivered cost competitiveness basis.
- 23.02 The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes: In the first stage, the Bids would be subjected to a responsiveness check. The Technical & qualifying Proposals and the Conditional ties of the Bidders would be evaluated.

Subsequently, the Financial Proposals along with Supplementary Financial Proposals, if any, of Bidders with Techno-commercially Acceptable Bids shall be considered for final evaluation.

- 23.03 The Purchaser's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:

(a) Delivery Schedule

(1) Conformance to Qualifying Criteria

(c) Deviations from Bidding Documents

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Bidders shall base their Bid price on the terms and conditions specified in the Bidding Documents.

The cost of all quantifiable deviations and omissions from the specification, terms and conditions specified in Bidding Documents shall be evaluated. **The Purchaser will make its own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.**

- 23.04 Any adjustments in price, which result from the above procedures, shall be added for the purposes of comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

F. AWARD OF CONTRACT

24.0 CONTACTING THE PURCHASER

- 24.01 If any Bidder wishes to contact the Purchaser on any matter related to the Bid, from the time of Bid opening to the time of contract award, the same shall be done in writing only.
- 24.02 Any effort by a Bidder to influence the Purchaser and/or in the Purchaser's decisions in respect of Bid evaluation, Bid comparison or Contract Award, will result in the rejection of the Bidder's Bid.

25.0 THE PURCHASER 'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at anytime prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

26.0 AWARD OF CONTRACT

The Purchaser will award the Contract to the successful bidder whose bid has been Determined to be the lowest-evaluated responsive bid, provided further that the Bidder has been determined to be qualified to satisfactorily perform the Contract. Purchaser reserves the right to award order to other bidders in the tender, provided it is required for timely execution of project & provided he agrees to come to the lowest rate. Purchaser reserves the right to distribute the entire tender quantity at its own discretion without citing any reasons thereof.

27.0 THE PURCHASER 'S RIGHT TO VARY QUANTITIES

The Purchaser reserves the right to vary the quantity i.e. increase or decrease the numbers/quantities without any change in terms and conditions during the execution of the Order.

28.0 LETTER OF INTENT/ NOTIFICATION OF AWARD

The letter of intent/ Notification of Award shall be issued to the successful Bidder whose bids have been considered responsive, techno-commercially acceptable and evaluated to be the lowest (L1). The successful Bidder shall be required to furnish a letter of acceptance within 7 days of issue of the letter of intent /Notification of Award by Purchaser.

29.0 PERFORMANCE BANK GAURANTEEE

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The successful Bidder shall furnish the Performance Bank Guarantee within fifteen (15) days, for an amount of 10% (Ten Percent) of Total Contract value/PO value and shall be valid for 66 months after commissioning of equipment and extra 3 months towards claim period. Upon submission of the performance security, the EMD shall be released.

30.0 **CORRUPT OR FRAUDULENT PRACTICES**

30.01 The Purchaser requires that the Bidders observe the highest standard of ethics during the procurement and execution of the Project. In pursuance of this policy, the Purchaser:

- (a) Defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "Corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
 - (ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition.
- (b) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

30.02 Furthermore, Bidders shall be aware of the provision stated in the Terms and Conditions of Contract.

31. **STATUTORY GUIDELINES & REGULATIONS**

The bidder shall make himself fully aware & familiarize himself with all applicable laws/guidelines/regulations.

32. **PRIORITY OF CONTRACT DOCUMENTS**

The several documents forming the Agreement are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies, the same shall be explained and adjusted by the company, who shall, accordingly, issue suitable instructions thereon to the Contractor. In such event, unless otherwise provided in the agreement or explained by way of instructions by the company, as mentioned above, the priority of the documents forming the Agreement shall be as follows:

- i) Contract Agreement/Purchase Order.
 - (a) Special Conditions of Contract
 - (b) General Conditions of Contract
- ii) The Letter of Acceptance/ Intent
- iii) Agreed Minutes of the Tender Negotiation Meetings

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- (iv) Agreed Minutes of the Tender Technical Meetings
- (v) The Priced Bill of Quantities

(vi) The Technical Specifications / Scope of work

(vii) The Tender document, including all Appendices and/or Addenda, Corrigendum the latest taking precedence.

In the event of any conflict between the above-mentioned documents, the more stringent requirement or conditions which shall be favourable to the company shall govern and the decision of company/BYPL shall be final and binding upon the parties.GENERAL CONDITIONS OF CONTRACT (GCC)- SUPPLY

BYPL

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SECTION – III: TERMS AND CONDITIONS

1.01 General Instructions

- 1.01 All the Bids shall be prepared and submitted in accordance with these instructions.
- 1.01 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and the Purchaser will in no case shall be responsible or liable for these costs.
- 1.01 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred/sold to the other party.
- 1.01 The Purchaser reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser, the data in support of RFQ requirement is incomplete.
- 1.01 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, the Purchaser's decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on the Purchaser.

2.0 Definition of Terms

- 2.01 "Purchaser" shall mean BSES Yamuna Power Limited, on whose behalf this bid enquiry is issued by its authorized representative / officers.
- 2.02 "Bidder" shall mean the firm who quotes against this bid enquiry issued by the Purchaser. "Supplier" or "Supplier" shall mean the successful Bidder and/or Bidders whose bid has been accepted by the Purchaser and on whom the "Letter of Acceptance" is placed by the Purchaser and shall include his heirs, legal representatives, successors and permitted assigns wherever the context so admits.
- 2.03 "Supply" shall mean the Scope of Contract as described.
- 2.04 "Specification" shall mean collectively all the terms and stipulations contained in those portions of this bid document known as RFQ, Commercial Terms & Condition, Instructions to Bidders, Technical Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the Purchaser from time to time.
- 2.05 "Letter of Acceptance" shall mean the official notice issued by the Purchaser notifying the Supplier that his proposal has been accepted and it shall include amendments thereto, if any, issued by the Purchaser. The "Letter of Acceptance" issued by the Purchaser shall be binding on the "Supplier" The date of Letter of Acceptance shall be taken as the effective date of the commencement of contract.
- 2.06 "Month" shall mean the calendar month and "Day" shall mean the calendar day.
- 2.07 "Codes and Standards" shall mean all the applicable codes and standards as indicated in the Specification.

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- 2.08** "Offer Sheet" shall mean Bidder's firm offer submitted to BYPL in accordance with the specification.
- 2.09** "Contract" shall mean the "Letter of Acceptance/Purchase Order" issued by the Purchaser.
- 2.10** "Contract Price" shall mean the price referred to in the "Letter of Acceptance/Purchase Order".
- 2.11** "Contract Period" shall mean the period during which the "Contract" shall be executed as agreed between the Supplier and the Purchaser in the Contract inclusive of extended contract period for reason beyond the control of the Supplier and/or Purchaser due to force majeure.
- 2.12** "Acceptance" shall mean and deemed to include one or more of the following as will be stipulated in the specification:
- The written acceptance of material by the inspector at suppliers works to ship the materials.
 - Acceptance of material at Purchaser site stores after its receipt and due inspection/ testing and release of material acceptance voucher.
 - Where the scope of the contract includes supply, acceptance shall mean issue of necessary equipment / material takeover receipt after installation & commissioning and final acceptance.
- 3.0 Contract Documents & Priority**
- 3.01** Contract Documents: The terms and conditions of the contract shall consist solely of these RFQ conditions and the offer sheet.
- 4.0 Scope of Supply –General**
- 4.01** The "Scope of Supply" shall be on the basis of Bidder's responsibility, completely covering the obligations, responsibility and supplies provided in this Bid enquiry whether implicit or explicit.
- 4.02** Bidder shall have to quote for the Bill of quantities as listed in **Section – IV of this RFQ**.
- 4.03** Quantity variation and additional requirement if any shall be communicated to successful bidder during project execution.
- 4.04** All relevant drawings, data and instruction manuals.
- 5.0 Quality Assurance and Inspection**
- 5.01** Immediately on award of contract, the bidder shall prepare detailed quality assurance plan / test procedure identifying the various stages of manufacture, quality checks performed at each stage, raw material inspection and the Customer hold points. The document shall also furnish details of method of checking, inspection and acceptance standards / values and get the approval of Purchaser before proceeding with manufacturing. However, Purchaser shall have right to review the inspection reports, quality checks and results of suppliers in house inspection department which are not Customer hold points and the supplier shall comply with the remarks made by purchaser or his representative on such reviews with regards to further testing, rectification or rejection, etc.
- 5.02** Witness and Hold points are critical steps in manufacturing, inspection and testing where the supplier is obliged to notify the Purchaser in advance so that it may be witnessed by the Purchaser. Final inspection is a mandatory hold point. The supplier to proceed with the work past a hold point only after clearance by purchaser or a witness waiver letter from BYPL.

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- 5.03** The performance of waiver of QA activity by Purchaser at any stage of manufacturing does not relieve the supplier of any obligation to perform in accordance with and meet all the requirements of the procurement documents and also all the codes & reference documents mentioned in the procurement document nor shall it preclude subsequent rejection by the purchaser.
- 5.04** On completion of manufacturing the items can only be dispatched after receipt of dispatch instructions issued by the Purchaser.
- 5.05** All in-house testing and inspection if any shall be done with out any extra cost. The in-house inspection shall be carried out in presence of BSES/BSES authorized third party inspection agency. Cost of Futile/abortive visit(s) shall be debited from the invoices
- 5.06** Purchaser reserves the right to send any material being supplied to any recognized laboratory for testing, wherever necessary and the cost of testing shall be borne by the Bidder. In case the material is found not in order with the technical requirement / specification, the charges along with any other penalty which may be levied is to be borne by the bidder. To avoid any complaint the supplier is advised to send his representative to the stores to see that the material sent for testing is being sealed in the presence of bidder's representative.

6.0 Inspection & Test Charges

- 6.01 GOODS shall be inspected by BUYER and/or third-party inspection agency nominated by BUYER. Inspection shall carry out stage-wise/final inspection as per agreed QA /QC procedure. In addition, inspection of GOODS shall be carried out at our Site/stores. SELLER shall, however, repair/replace the damaged/rejected GOODS to the satisfaction of BUYER at no extra cost.
- 6.02 Inspection charges are included in total order value, however, BUYER will bear third-party inspection charges. In case of a futile/abortive visit of BUYER's inspector at SELLER'S works, the cost towards the same shall be debited from the SELLER's invoices.
- 6.03 GOODS covered by this PURCHASE ORDER shall not be dispatched in whole or in part until SELLER has received a written Release for Shipment Notice from BUYER or their designated representative.
- 6.04 Inspection call shall be raised a minimum of 7 (seven) days in advance from the delivery schedule mentioned in the PO and duly filled Format issued by BYPL

7.0 Packing, Packing List & Marking

- 7.01 Packing:** Supplier shall pack or shall cause to be packed all Commodities in crates/boxes/drums/containers/cartons and otherwise in such a manner as shall be reasonably suitable for shipment by road or rail to BYPL, Delhi/New Delhi stores/site without undue risk of damage in transit.
- 7.02 Packing List:** The contents of each package shall be itemized on a detailed list showing the exact weight, extreme outside dimensions (length, width & weight) of each container/box/drum/carton, Item SAP Code, PO No & date. One copy of the packing list shall be enclosed in each package delivered.

8.0 Handling and Storage

- 8.01 Material Safety Data Sheet (MSDS), detail handling & storage instruction sheet/manual, wherever applicable, to be furnished before the commencement of supply and one copy is to be submitted in store/site with First Lot.

9.0 Prices/Rates/Taxes

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9.01 Price basis for supply of materials

- a) Bidder to quote their prices on Landed Cost Basis and separate price for each item for supply to BYPL Delhi/New Delhi stores inclusive of packing, forwarding, loading at manufacturer's premises, payment of Freight and GST, any other local charges. **Octroi is presently not applicable in Delhi and however if applicable shall be reimbursed at actuals.**
- b) The above supply prices is inclusive of unloading at BYPL Delhi/New Delhi stores/site.
- c) Transit insurance will be arranged by bidder; however, bidder to furnish required details in advance for arranging the same by Purchaser.

10.0 Taxes & Duties

- 10.01 Prices for Goods are on Ex- Works basis. For the Goods covered under the GST laws, all taxes that are applicable under CGST, SGST, UGST, IGST and GST Compensation Cess shall be payable extra.
- 10.02 For the Goods not covered in the GST laws, the applicable ED, VAT / CST shall be payable extra at applicable rates.
- 10.03 GSTIN of BSES YAMUNA POWER LTD - 07AABCC8569N1Z0
CST No of BSES YAMUNA POWER LTD - 07740254593
TIN NO of BSES YAMUNA POWER LTD - 07740254593
PAN NO of BSES YAMUNA POWER LTD - AABCC8569N
- 10.04 At the end of each month, the SELLER must submit their detail of invoices and amount thereof to the concerned officer in charge, within 07 days after the close of the respective month to which supply relates. Non-submission of the said request would be treated as good as that the SELLER has no requirement of reconciliation.

11.0 Invoicing Instructions

- 11.01 Invoices in triplicate [1) Original for recipient, 2) Duplicate for Transporter, 3) Triplicate for supplier] shall be made out and delivered to the following address: BSES YAMUNA POWER LIMITED, SHAKTI KIRAN BUILDING, KARKARDOOMA, DELHI-110032.
MDCC will be released separately for Capex & Opex. Invoice will be submitted by the supplier as per the MDCC.
- 11.02 Vendor shall obtain GST registration in the State from where the supply will be carried out. Vendors supplying Goods to the Purchaser shall have a valid GST registration number and shall submit GST Tax Invoice and other documents as per SGST Act, CGST Act, IGST Act, UTGST Act, GST Compensation Cess Act and Rules made there under. Failure to submit GST Tax Invoice shall be liable for withholding SGST, CGST, IGST, UTGST, GST Compensation Cess amount charged by the vendor while releasing the payment.
- 11.03 Invoice will be in the name of BSES YAMUNA POWER LIMITED & address of the store/site mentioned in the MDCC. Invoice should contain all information as required under GST Invoice, Debit Note and Credit Rules. The government has notified rules of invoicing under GST along with a template of invoice(GST INV-01) covering the elements such as supplier's details, GSTIN No, HSN Codes, item details, GST tax rates, etc that need to be presented by the supplier.

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- 11.04 Vendor to carefully examine and charge relevant CGST / SGST, UGST, IGST and GST compensation cess as applicable to the transactions.
- 11.05 Timely provision of invoices / Debit Notes / Credit Notes:
- 11.05.1 Vendor to timely provide invoice / Debit note / Credit note to enable Purchaser to claim tax benefit on or before stipulated time period. All necessary adjustment entries (Credit Notes, Purchase Returns, Debit Notes) shall be made within the timelines prescribed under the GST Laws.
- 11.05.2 In case of receipt of advance, the Vendor undertakes to raise the tax invoice. Purchaser, upon payment of advance, shall issue payment voucher as per applicable GST laws and rules. Four copies of the invoices need to be provided by suppliers and wherever the law requires, an Electronic Reference Number for each invoice.
Documents and devices to be carried by a person in charge of a conveyance under.
- 11.06 E Way Bills/transit documents for movement of Goods:
Wherever applicable, the Vendor shall be responsible for issuing required transit documents / E Way Bills for the movement of Goods and the logistic partner/transporter shall not be liable for any loss arising due to confiscation of goods by government agencies on account of lack of proper documents or any misdeclaration. The Supplier is responsible for complying with rules applicable to the E-way bill. Any violation in provision of E-way Bill will attract penalties and seizure of Transit Material. Any Penalty and Pre-Deposit due to violation of rules/provisions shall be paid and borne by the Supplier. Also, the Supplier is responsible for releasing goods from the Authority whether CGST/SGST. Delay in supply from the contractual date due to the seizure of goods shall also attract liquidated damages.

12.0 Terms of payment and billing

12.01 For Supply of Equipments:

- i) **a. SUPPLY:** 80% payment shall be made within 45 days from the date of receipt and acceptance of GOODS and certification by Engineer In charge along against submission of the following documents against dispatch of each consignment at our Vendor Support Cell (VSC):
Consignee copy of LR
- Signed copy of accepted Purchase Order (for first payment)
 - LR / RR / BL as applicable
 - Challan as applicable
 - Two (02) copies of the Supplier's detailed Recipient Invoice showing Commodity description, quantity, unit price, total price and basis of delivery, and is 100% of the value of the consignment claimed.
 - Two (02) copies of Supplier's transporter invoice duly receipted by BYPL Store & Original certificate issued by BYPL confirming receipt of the subject material at Store/Site and acceptance of the same as per the provisions of the contract.
 - Two (02) copies Packing List / Detailed Packing List
 - Approved Test certificates / Quality certificates, if applicable
 - Certificate of Origin, if applicable
 - Material Dispatch Clearance Certificate (MDCC)
 - Warranty / Guarantee Certificate, if applicable
 - Checklist for bill submission.
 - Performance Bank Guarantee equivalent to 10% of the Contract value valid up to Defect Liability period plus 3 months towards Claim period (for supply).

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b. SERVICE: 20% payment pro-rata after completion of training of 3 months/tracing of 30 faulty cables whichever is earlier and successful acceptance testing, commissioning and Handing Over of the entire Installation and duly certified by BYPL Project-in-charge and submission of PBG of 10% of contract value valid up to Defect Liability period i.e. 60 months from the date of Handing over of entire Installation Plus 3 months towards Claim period..

- 12.02 Purchaser has the right to recover tax loss, interest and penalty suffered due to any non-compliance of tax laws by the Vendor. In the event, Purchaser is not able to avail of any tax credit due to any shortcoming on the part of the Vendor (which otherwise should have been available to Purchaser in the normal course), then the Vendor at his own cost and effort will get the short coming rectified. If for any reason the same is not possible, then the Vendor will make 'good' the loss suffered by Purchaser due to the tax credit it lost. In such event, any amount paid to the Vendors shall be first attributable to the tax (GST) charged in the invoice and the balance shall be considered towards the 'value' of supply of goods/ services.
- 12.03 Purchaser shall deduct "Tax Deducted at Source" wherever applicable and at the rate prescribed under the GST Laws or any other Indian law and remit the same to the Government. Necessary TDS certificates as per law shall be issued by the purchase to the vendor.
- 12.04 Any liability arising out of dispute on the tax rate, classification under HSN, calculation and payment of tax to the Government will be to the Vendor's account.
- 12.05 Where the supply of Goods is liable to GST under reverse charge mechanism, then the supplier should clearly mention the category under which it has been registered and also that "the liability of payment of GST is on the Recipient of Supply".

13.0 Tax Indemnity Clause

- 13.01 Vendor (along with its affiliates in India or overseas including any agent/ third party contractor or any other person appointed by such affiliates for the purpose of this agreement) agrees that it will be solely responsible for performing all compliances and making payments of all taxes (direct tax or indirect tax including but not limited to income-tax, transfer pricing, value added tax, SGST, CGST, IGST, UTGST, GST Compensation Cess custom duty, excise duty, Research and Development Cess, etc.), cesses, interest, penalties or any other tax/ duty/ amount/ charge/ liability arising either out of laws/ regulations applicable in India and overseas or because of a demand/ recovery initiated by any revenue authority under laws/ regulations applicable in India or overseas.
- 13.02 In case any tax liability (including but not limited to income tax, transfer pricing, value added tax, SGST, CGST, IGST, UTGST, GST Compensation Cess, custom duty, excise duty, Research and Development Cess, etc.), cesses, interest, penalties or any other tax/ duty/ amount/ charge/ liability becomes payable by Purchaser due to failure of the Vendor, or any of its affiliates in India or overseas including any agent/ third party contractor or any other person appointed by such affiliates for the purpose of this agreement, to comply with the relevant laws/ regulations applicable in India or overseas, Vendor undertakes to indemnify Purchaser for an amount equal to amount payable by Purchaser.
- 13.03 Further, Vendor undertakes to keep Purchaser indemnified at all times against and from all other actions, proceedings, claims, loss, damage, costs and expenses which may be brought against Purchaser or suffered or incurred by Purchaser and which shall have arisen either directly or indirectly out of or in

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connection with failure of The Vendor, or any of its affiliates in India or overseas including any agent/ third party contractor or any other person appointed by such affiliates for the purpose of this agreement, to comply with relevant obligations/ compliance under any law/ regulations applicable in India and overseas.

13.04 The parties agree to follow the following process in case any communication of demand, arising out of non-compliance by Vendor (along with its affiliates in India or overseas including any agent/ third party contractor or any other person appointed by such affiliates for the purpose of this agreement), is received by Purchaser:

13.04.1 On Purchaser receiving any communication from a competent authority demanding tax liability (including but not limited to income tax, transfer pricing, value added tax, SGST, CGST, IGST, UTGST, GST Compensation Cess custom duty, excise duty, Research and Development Cess, etc.), cesses, interest, penalties or any other tax/ duty/ amount/ charge/ liability, Purchaser shall, within 5 common working days from the date of receipt of such communication (save where the period to respond to the relevant authority is less than five days, in which case, as soon as reasonably possible) inform Vendor in writing of such communication.

13.04.2 Pursuant to receiving communication from Purchaser, Vendor shall suggest to accept the communication and pay the demand amount to the competent authority. In such an event, Vendor shall reimburse such amount paid to Purchaser within 5 working days from the date of payment by Purchaser to the competent authority.

13.04.3 If Vendor advises in writing and Purchaser agrees to dispute the demand, then Purchaser shall dispute the matter with competent authority as per due process prescribed under the regulations and Purchaser shall not pay the Tax Demand. In such scenario, cost of litigation including but not limited to Counsel cost, filing fees, other related charges, should be reimbursed by Vendor to Purchaser. Additionally, If any coercive steps of recovery are initiated by the department, then Purchaser would pay such amount (including by way of adjustment of refunds due to it) and the same would be reimbursed by Vendor within 5 working days from date of such recovery from Purchaser. Purchaser will take all necessary steps to avoid such recovery measures.

13.04.4 On determination of the demand through an Order issued by a Tribunal or any other similar Authority, by whatever name called, under any law applicable in India or overseas, if the demand or any part thereof becomes payable and is paid by Purchaser, then Vendor undertakes to reimburse such amount to Purchaser within 10 days from the date of payment. Alternatively, if on determination of the demand through an Order, no amount is payable by Purchaser then any refund arising to Purchaser due to such an Order shall be passed on to Vendor within 10 days from the date of receipt of refund.

14.0 The Micro, Small and Medium Enterprises (MSME)

14.01 If the SELLERS establishment is covered under the purview of The Micro, Small and Medium Enterprises Development Act, 2006 and its amendments, he shall declare so within the bid of its status failing which it will be presumed that it is a non-MSME unit. Also submit a copy of Udyog Aadhaar (UA) & Udyam Registration Number.

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15.0 Price Validity

15.01 All bids submitted shall remain valid, firm and subject to unconditional acceptance by BYPL Delhi for 120 days from the due date of submission. For awarded suppliers, the prices shall remain valid till contract completion.

16.0 Performance Bank Guarantee

16.01 To be submitted within 15 days of the receipt of Notification of Award/ Letter of Intent from the Purchaser, the successful Bidder shall furnish the Performance Bank Guarantee for an amount of 10% (Ten percent) of the Total Contract Value/ PO value/Amended PO value (each for supply and service). The Performance Bond shall be valid for a period of 66 months from the date of Commissioning or 60 months from the date of last receipt at stores whichever is earlier plus 3 months towards claim period. Upon submission of the performance security, the EMD shall be released.

16.02 Bank guarantee shall be drawn in favour of BSES Yamuna Power Ltd as applicable. The performance Bank guarantee shall be in the format as specified by BYPL.

17.0 Forfeiture

17.01 Each Performance Bond established under Clause 10.0 shall contain a statement that it shall be automatically and unconditionally forfeited without recourse and payable against the presentation by BYPL of this Performance Bond, to the relevant bank referred to above, together with a simple statement that supplier has failed to comply with any term or condition set forth in the Contract.

17.02 Each Performance BG established under will be automatically and unconditionally forfeited without recourse if BYPL in its sole discretion determines that supplier has failed to comply with any term or condition set forth in the contract.

18.0 Release

All Performance Bonds will be released without interest within seven (7) days from the last date up to which the Performance Bond has to be kept valid (as defined in Clause 10.0) except for the case set forth in Clause 21.0.

19.0 Defects Liability Period/Guarantee/Warranty

19.01 The bidder is to Guarantee the materials/items supplied against any defect or failure, which arises due to faulty materials, workmanship or design for the entire defects liability period. The Defect liability period shall be 60 months from the date of commissioning or 66 months from the date of delivery whichever is earlier.

19.02 If during the Defects Liability Period, any GOODS are found to be defective, they shall be promptly replaced or rectified by BIDDER at its own cost (including the cost of dismantling and (reinstallation) on the instructions of BUYER and if removed from SITE for such purpose, shall be removed and re-delivered to SITE by BIDDER at its own cost.

20.0 Return, Replacement or Substitution.

BYPL shall give Supplier notice of any defective Commodity promptly after becoming aware thereof. BYPL may in its discretion elect to return defective Commodities to Supplier for replacement, free of charge to BYPL, or may reject such Commodities and purchase the same or similar Commodities from any third

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party. In the latter case BYPL shall furnish proof to Supplier of the cost of such substitute purchase. In either case, all costs of any replacement, substitution, shipping, labour and other related expenses incurred in connection with the return and replacement or for the substitute purchase of a Commodity hereunder should be for the account of Supplier. BYPL may set off such costs against any amounts payable by BYPL to Supplier. Supplier shall reimburse BYPL for the amount, if any, by which the price of a substitute Commodity exceeds the price for such Commodity as quoted in the Bid. BUYER at its sole discretion shall have the opinion to dispose of the material or GOODS so rejected and not taken back within forty-five days from the date of intimation of rejection.

21.0 Effective Date of Commencement of Contract

21.01 The date of the issuance of the Letter of Acceptance/Purchase Order shall be treated as the effective date of the commencement of Contract.

22.0 Time – The Essence Of Contract

22.01 The time and the date of completion of the "Supply" as stipulated in the Letter Of Acceptance / Purchase order issued to the Supplier shall be deemed to be the essence of the "Contract". The Supply has to be completed not later than the aforesaid Schedule and date of completion of supply.

23.0 The Laws and Jurisdiction of Contract:

23.01 The laws applicable to this Contract shall be the Laws in force in India.

23.02 All disputes arising in connection with the present Contract shall be settled amicably by mutual consultation failing which shall be finally settled as per the rules of Arbitration and Conciliation Act, 1996 at the discretion of Purchaser. The venue of arbitration shall be Delhi, India

24.0 Events of Default

24.01 Events of Default. Each of the following events or occurrences shall constitute an event of default ("Event of Default") under the Contract:

- (a) Supplier fails or refuses to pay any amounts due under the Contract;
- (b) Supplier fails or refuses to deliver Commodities conforming to this RFQ/specifications, or fails to deliver Commodities within the period specified in P.O. or any extension thereof
- (c) Supplier becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Supplier's creditors file any petition relating to bankruptcy of Supplier;
- (d) Supplier otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt by the Supplier of notice of such failure from BYPL.

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25.0 Consequences of Default.

- (a) If an Event of Default shall occur and be continuing, BYPL may forthwith terminate the Contract by written notice.
- (b) In the event of an Event of Default, BYPL may, without prejudice to any other right granted to it by law, or the Contract, take any or all of the following actions;
 - (i) present for payment to the relevant bank the Performance Bond;
 - (ii) purchase the same or similar Commodities from any third party; and/or
 - (iii) recover any losses and/or additional expenses BYPL may incur as a result of Supplier's default.

26.0 Penalty for Delay

- 26.01 If supply of items/equipments is delayed beyond the supply schedule as stipulated in the purchase order then the Supplier shall be liable to pay to the Purchaser as penalty for delay, a sum of 1% (one percent) of the basic (ex-works) price for every week delay of undelivered units or part thereof for individual milestone deliveries.
- 26.02 The total amount of penalty for delay under the contract will be subject to a maximum of ten percent (10%) of the basic (ex-works) price of total undelivered units.
- 26.03 The Purchaser may, without prejudice to any method of recovery, deduct the amount for such damages from any amount due or which may become due to the Supplier or from the Performance Bond or file a claim against the supplier.
- 26.4 If the Penalty is levied as per the Order terms & conditions; BYPL will raise the Invoice for the penalty amount along with applicable GST rates. Accordingly, after setting off the penalty Invoice amount, net payment shall be made.

27.0 Variation in Taxes, Duties & Levies

- 27.1 The total order value shall be adjusted on account of any variations in Statutory Levies imposed by Competent Authorities by way of fresh notification(s) within the stipulated delivery period only. In case of reduction in taxes, duties and levies, the benefits of the same shall be passed on to BUYER.
- 27.2 No other Taxes, Duties & Levies other than those specified above will be payable by BUYER except in case of new Levies, Taxes & Duties imposed by the Competent Authorities by way of fresh notification(s) subsequent to the issue of PURCHASE ORDER but within the stipulated delivery period.
- 27.3 Notwithstanding what has been stated above, changes in Taxes, Duties & Levies shall apply only to that portion of PURCHASE ORDER not executed on the date of notification by Competent Authority. Further, changes in Taxes, Duties & Levies after due date of Delivery shall not affect PURCHASE ORDER Terms and Value.
- 27.4 PURCHASE ORDER value shall not be subject to any variation on account of variation in Exchange rate(s).

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28.0 Taxes & Duties on raw materials & bought out components

- 28.01 Taxes & Duties on raw materials & bought-out components are included in Order Value and are not subject to any escalation or variation for any reason whatsoever.
- 28.02 Taxes & Duties on raw materials & bought-out components procured indigenously are included in Order Value and are not subject to any escalation or variation for any reason whatsoever.

29.0 Force Majeure

29.01 General

An "Event of Force Majeure" shall mean any event or circumstance not within the reasonable control directly or indirectly, of the Party affected, but only if and to the extent that:

- (i) Such event or circumstance materially and adversely affects the ability of the affected Party to perform its obligations under this Contract, and the affected Party has taken all reasonable precautions, due care and reasonable alternative measures in order to prevent or avoid the effect of such event on the affected party's ability to perform its obligations under this Contract and to mitigate the consequences thereof.
- (ii) For the avoidance of doubt, if such event or circumstance would not have materially and adversely affected the performance of the affected party had such affected party followed good industry practice, such event or circumstance shall not constitute force majeure.
- (iii) Such event is not the direct or indirect result of the failure of such Party to perform any of its obligations under this Contract.
- (iv) Such Party has given the other Party prompt notice describing such events, the effect thereof and the actions being taken in order to comply with above clause.

29.02 Specific Events of Force Majeure subject to the provisions of above clause, Events of Force Majeure shall include only the following to the extent that they or their consequences satisfy the above requirements :

- (i) The following events and circumstances :
 - a) Effect of any natural element or other acts of God, including but not limited to storm, flood, earthquake, lightning, cyclone, landslides or other natural disasters.
 - b) Explosions or fires
- (ii) War declared by the Government of India.
- (iii) Dangers of navigation, perils of the sea.

Note: Causes like power breakdown/strikes, accidents etc do not fall under Force Majeure.

29.03 Notice of Events of Force Majeure If a force majeure event prevents a party from performing any obligations under the Contract in part or in full, that party shall:

- i) Immediately notify the other party in writing of the force majeure events within 7(seven) working days of the occurrence of the force majeure event
- ii) Be entitled to suspend performance of the obligation under the Contract which is affected by force majeure event for the duration of the force majeure event.
- iii) Use all reasonable efforts to resume full performance of the obligation as soon as practicable
- iv) Keep the other party informed of all such efforts to resume full performance of the obligation on a regular basis.
- v) Provide prompt notice of the resumption of full performance or obligation to the other party.

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29.04 Mitigation of Events of Force Majeure Each Party shall:

- (i) Make all reasonable efforts to prevent and reduce to a minimum and mitigate the effect of any delay occasioned by an Event of Force Majeure including recourse to alternate methods of satisfying its obligations under the Contract;
- (ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties; and
- (iii) Keep the other Party informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measures or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.

29.05 Burden of Proof In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this Agreement. The burden of proof as to whether or not a force majeure event has occurred shall be upon the party claiming that the force majeure event has occurred and that it is the affected party.

29.06 Termination for Certain Events of Force Majeure. If any obligation of any Party under the Contract is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 3 months, the Parties shall promptly discuss in good faith how to proceed with a view to reaching a solution on mutually agreed basis. If a solution on mutually agreed basis cannot be arrived at within a period of 30 days after the expiry of the period of three months, the Contract shall be terminated after the said period of 30 days and neither Party shall be liable to the other for any consequences arising on account of such termination.

The Purchaser may terminate the contract after giving 7 (seven) days' notice if any of the following occurs:

- i. Bidder fails to complete the execution of works within the approved schedule of works, terms and conditions.
- ii. In case the Bidder commits any Act of Insolvency, or is adjudged insolvent
- iii. Has abandoned the contract
- iv. Has failed to commence work or has suspended the progress of works
- v. Has failed to proceed with the works with due diligence and failed to make such due progress

29.07 Limitation of Force Majeure event. The Supplier shall not be relieved of any obligation under the Contract solely because the cost of performance is increased, whether as a consequence of adverse economic consequences or otherwise.

29.08 Extension of Contract Period due to Force Majeure event The Contract period may be extended by mutual agreement of Parties by way of an adjustment on account of any period during which an obligation of either Party is suspended due to a Force Majeure event.

29.09 Effect of Events of Force Majeure. Except as otherwise provided herein or may further be agreed between the Parties, either Party shall be excused from performance and neither Party shall be construed to be in default in respect of any obligations hereunder, for so long as the failure to perform such obligations shall be due to an event of Force Majeure."

29.10 Severability

If any provision of this Agreement is or becomes invalid or unenforceable by the courts of any jurisdiction to which it is subject, such invalidity or unenforceability shall not prejudice the remaining provisions of this Agreement, which shall continue in full force and effect.

30.0 Transfer and Sub-Letting

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- 30.01 The Supplier shall not sublet, transfer, assign or otherwise part with the Contract or any part thereof, either directly or indirectly, without prior written permission of the Purchaser.

31.0 Recoveries

- 31.01 Whenever under this contract any money is recoverable from and payable by the bidder, the purchaser shall be entitled to recover such sum by appropriating in part or in whole by detecting any sum due to which any time thereafter may become due from the supplier in this or any other contract. Should the sum be not sufficient to cover the full amount recoverable the bidder shall pay to the purchaser on demand the remaining balance.

32.0 Waiver

- 32.01 Failure to enforce any condition herein contained shall not operate as a waiver of the condition itself or any subsequent breach thereof.

33.0 Indemnification

- 33.01 Notwithstanding contrary to anything contained in this RFQ, Supplier shall at his costs and risks make good any loss or damage to the property of the Purchaser and/or the other Supplier engaged by the Purchaser and/or the employees of the Purchaser and/or employees of the other Supplier engaged by the Purchaser whatsoever arising out of the negligence of the Supplier while performing the obligations under this contract.

34.00 Termination for convenience of Purchaser

- 34.1 Purchaser at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Supplier. Purchaser shall pay the Supplier for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Supplier to that effect.
- 34.2 Payment of such compensation is the sole and exclusive remedy of the supplier for termination of this Agreement by Purchaser hereunder and the supplier shall not be entitled to, and hereby waives, claims for lost profits and all other damages and expenses.
- 34.3 Supplier hereby agrees that substantiation for settlement of any claims submitted by supplier shall be complete and in sufficient detail to allow Purchaser's evaluation. Terminate all sub-contracts except those that have been/ to be assigned to the Purchaser all rights, titles and benefits of the Suppliers/Vendor as the case may be.

35.00 Documentation

- 35.01 The Bidder shall procure all equipment from BYPL-approved sources as per the attached specifications. The Bidders shall submit copies of Material/Type Test Certificates, O&M Manuals, and Approved & As-built drawings, related to various equipment (as applicable). The Bidder shall ensure strict compliance with the specifications and Field Quality Procedures issued by BYPL.

36.0 Transit Insurance

- 36.01 Transit Insurance shall be arranged by the Bidder.
- 36.02 DAMAGE / LOSS OF CARGO IN TRANSIT: Vendor shall be solely responsible for coordinating with the concerned insurance company for procuring insurance for material and/or Goods, processing claims lodgment and settlement. Notwithstanding the insurance cover, in case of loss/damage to material

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and/or Goods, in any manner and for any cause whatsoever, Vendor shall cause the damaged cargo to be replaced and delivered to the Purchaser with new material and/or Goods within 30 days of such loss/damage. The Vendor shall be solely responsible for all expenses in relation to the replacement and delivery in such circumstances.

37.0 Limitation of Liability

37.01 Except for willful misconduct or gross negligence, neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or any other indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract. The total liability of the Supplier to the Purchaser under the Contract shall not exceed the Contract Value. Except that this Clause shall not limit the liability of the Supplier:

- (a) In cases of fraud, willful misconduct or illegal or unlawful acts, or
- (b) In cases of acts or omissions of the Supplier that are contrary to the most elementary rules of diligence that a conscientious Supplier would have followed in similar circumstances.

38.0 Liability of Suppliers

38.1 Subject to the due discharge of its obligations under the Contract and except in case of gross negligence or willful misconduct on the part of the Supplier or on the part of any person acting on behalf of the Supplier, with respect to any loss or damage caused by the Supplier to the Purchaser's property or the Site, the Supplier shall not be liable to the Purchaser for the following:

- (a) For any indirect or consequential loss or damage; and
- (b) For any direct loss or damage that exceeds:
 - (i) The total payments made and expected to be made to the Supplier under the Contract including reimbursements, if any; or
 - (ii) The insurance claim proceeds that the Supplier may be entitled to receive from any insurance purchased by the Supplier to cover such a liability, whichever is higher.

38.2 This limitation of liability shall not affect the supplier's liability, if any, for damage to third-party property or injury or death of a person due to negligence of the Contractor or any Person or firm acting on behalf of the supplier in executing the order.

38.3 Notwithstanding anything contained in the Contract, the Supplier shall not be liable for any gross negligence or willful misconduct on the part of the Purchaser or any of its affiliates, any vendor, or any party, other than Supplier and/or, its directors, officers, agents or representatives or its affiliates, or SubSupplier, or the vendor or any third party engaged by it.

38.4 Notwithstanding anything contained in the Contract, including but not limited to approval by the Purchaser of any drawings, documents, vendor list, supply of information or data or the participation of the Purchaser in any meeting and/or discussion or otherwise, shall not absolve the Supplier from any of its liabilities or responsibilities arising in relation to or under the Contract.

39.0 Intellectual Property Rights and Royalties

39.1 The Supplier shall indemnify the Purchaser and the Purchaser's Representative from and against all claims and proceedings on account of infringement (or alleged infringement) of any patent rights, registered designs, copyright, design, trademark, trade name, know-how or other intellectual property rights (hereinafter collectively referred to as "**Intellectual Property Rights**") in respect of the Works, Supplier's Equipment, machines, Works method, Plant, Materials, or anything whatsoever required for the execution

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of the Works and from and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. In the event of an infringement of any Intellectual Property Rights of any third party as a result of the execution of the Works (or any part thereof) by the Supplier, the Supplier shall rectify, modify or replace, at its own cost, the Works, Plant or Materials or anything whatsoever required for the Works so that infringement ceases to exist or, in the alternative, the Supplier shall procure necessary rights/ licenses from the affected third party so that there is no infringement of Intellectual Property Rights.

- 39.2 The Supplier shall be promptly notified of any claim made against the Purchaser. The Supplier shall, at its cost, conduct negotiations for the settlement of such claim, and any litigation or arbitration that may arise from it. The Purchaser or the Purchaser's Representative shall not make any admission that might be prejudicial to the Supplier, unless the Supplier has failed to take over the conduct of the negotiations, litigation or arbitration within a reasonable time after having been so requested. In the event of the Supplier failing to act at the Purchaser's Representative's notice, the Purchaser shall be at full liberty to deduct any such amount of pending claim from any amount due to the Supplier under the Contract or any other contract and the balance portion of claim shall be treated as debt due from the Supplier.
- 39.3 All Intellectual Property Rights in respect of any Plant, Materials, Drawings and Designs, plans, documents, specifications, data, materials, know-how, charts, information, etc., provided to the Supplier by the Purchaser pursuant to this Contract for the execution of the Works, belongs to and shall continue to belong to the Purchaser and the Supplier shall not have any rights in the same other than the limited right for its use for the purpose of execution of the Works.
- 39.4 Intellectual Property Rights in respect of any Plant, Materials, Drawings and Designs, plans, calculations, drawings, documents, know-how and information relating to the Works which are proprietary to the Supplier and/ or its third-party licensors ("**Supplier's IPR**") shall continue to vest with the Supplier and/ or its third-party licensors and the Supplier shall grant and/ or procure from its third party licensors, at its own cost, a worldwide, perpetual, royalty free, non-exclusive license (along with the right to sub-license) to use and reproduce such Supplier's IPR for the use, operation, maintenance and repair of the Works.
- 39.5 If any patent, trademark, trade name, registered design or software is developed by the Supplier or its SubSupplier specifically for the execution of the Works, then all Intellectual Property Rights in respect of such design, trademark, trade name or software shall be the absolute property of the Purchaser and shall not be utilized or retained by the Supplier (or its SubSuppliers) for any purpose other than with the prior written consent of the Purchaser.
- 39.6 If the Supplier uses proprietary software (whether customized or off the shelf) for the purpose of storing or utilizing records in relation to the Works, the Supplier shall obtain at its own expense, the grant of a worldwide, royalty-free, perpetual licence or sublicense (including the right to sublicense) to use such software, in favour of the Purchaser provided that the use of such software under the licence or the sublicense may be restricted to use any such software only for the design, construction, reconstruction, manufacture, installation, completion, reinstatement, extension, repair and operation of the Works or any part thereof.
- 39.7 If any software is used by the Supplier for the execution of the Works over which the Supplier or a third party holds pre-existing title or other rights, the Supplier shall obtain for the Purchaser, a worldwide, royalty-free, perpetual license for the right to use and apply that software (together with any modifications, improvements and developments thereof).

40.0 ACCEPTANCE:

- 40.1 Vendor confirms to have gone through the Policy of BYPL on legal and ethical code required to be followed by

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vendors encapsulated in the "Vendor Code of Conduct" displayed on the official website of BYPL (www.bsesdelhi.com) also, which shall be treated as a part of the contract/PO/WO.

The vendor undertakes that he shall adhere to the Vendor Code of Conduct and also agrees that any violation of the Vendor Code of Conduct shall be treated as breach of the contract/PO/WO.

In event of any such breach, irrespective of whether it causes any loss/damage, Purchaser (BYPL) shall have the right to recover loss/damage from Vendor.

The Contractor/Vendor hereby indemnifies and agrees to keep indemnified the Purchaser (BYPL) against any claim/litigation arising out of any violation of Vendor Code of Conduct by the Contractor/Vendor or its officers, agents & representatives etc.

- 40.02 Acceptance of the CONTRACT implies and includes acceptance of all terms and conditions enumerated in the CONTRACT in the technical specification and drawings made available to Contractor consisting of general conditions, detailed scope of work, detailed technical specification, detailed equipment drawing and complete scope of work.
- 40.03 Contractor and Company contractual obligations are strictly limited to the terms set out in the CONTRACT. No amendments to the concluded CONTRACT shall be binding unless agreed to in writing for such amendment by both parties.
- 40.04 We expect your services and supplies to be aligned to our Vision, Mission and Values. Please refer to the following link to know about our Vision, Mission and Values; <https://www.bsesdelhi.com/web/bypl/about-bses>.

SECTION – IV

QUANTITY AND DELIVERY REQUIREMENT

Sl. No	Item Description	Specification	Total Qty.	Required Delivery Schedule	Destination
1.	SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND MAINTENANCE OF EHV (66 KV) CABLE FAULT LOCATOR MACHINE.	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores
2.	SUITABLE VAN FOR EHV (66 KV) CABLE FAULT LOCATOR	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores
3.	SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND MAINTENANCE OF 11 KV & LT CABLE FAULT LOCATOR MACHINE.	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores
4.	SUITABLE VAN FOR 11 KV & LT CABLE FAULT LOCATOR	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores
5.	AMC FOR 5 YEAR AFTER WARRANTY PERIOD- EHV(66 KV) CABLE FAULT LOCATOR	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores
6.	AMC FOR 5 YEAR AFTER WARRANTY PERIOD-11 KV & LT CABLE FAULT LOCATOR	BSES-TS-166-CFLHV-R0	As per BOQ in Price format	Within 90 days from the issue of PURCHASE ORDER	FOR, BYPL Delhi Stores

VOLUME-II

**SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND
MAINTENANCE OF CABLE FAULT LOCATOR MACHINE**

CMC/BY/25-26/RS/SKS/ASR/30

[RFx Number: 2200000158]

Date of Tender: 10.12.2025

ANNEXURE-I to NIT

Section – VI

BID FORM

To

Head of Department,
Contracts & Materials,
BSES Yamuna Power Ltd,
Shaktikiran Building, Karkardooma,
Delhi 110032

Sir,

- 1 We understand that BYPL is desirous of procuring..... for it's licensed distribution network area in Delhi
- 2 Having examined the Bidding Documents for the above named works, we the undersigned, offer to deliver the goods in full conformity with the Terms and Conditions and technical specifications for the sum of..... (figures.....) or such other sums as may be determined in accordance with the terms and conditions of the contract .The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.
- 3 If our Bid is accepted, we under take to deliver the entire goods as) as per delivery schedule mentioned in Section IV from the date of award of purchase order/letter of intent.
- 4 If our Bid is accepted, we will furnish a performance bank guarantee for an amount of 10% (Ten)percent of the total contract value for due performance of the Contract in accordance with the Terms and Conditions.
- 5 We agree to abide by this Bid for a period of 90 days from the due date of bid submission and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- 6 We declare that we have studied the provision of Indian Laws for supply of equipments/materials and the prices have been quoted accordingly.
- 7 Unless and until Letter of Intent is issued, this Bid, together with your written acceptance there of, shall constitute a binding contract between us.
- 8 We understand that you are not bound to accept the lowest, or any bid you may receive.
- 9 There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract.

Dated this..... day of..... 20.....

Signature..... In the capacity of

.....duly authorized to sign for and on behalf of (IN BLOCK CAPITALS)

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ANNEXURE-II to NIT

Section –VII

FORMAT FOR EMD BANK GUARANTEE

(To be issued in a Non Judicial Stamp Paper of Rs. 50/-purchased in the name of the bank)

Whereas [*name of the Bidder*] (herein after called the "Bidder") has submitted its bid dated[*date of submission of bid*] for the supply of [*name and/or description of the goods*] (here after called the "Bid").

KNOW ALL PEOPLE by these presents that WE [*name of bank*] at [*Branch Name and address*],having our registered office at[*address of the registered office of the bank*](herein after called the "Bank"),are bound unto BSES Yamuna Power Ltd., with it's Corporate Office at Shaktikiran Building, Karkardooma, Delhi -110032 ,(herein after called —the "Purchaser")in the sum of Rs..... (Rupees..... only) for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents.

Sealed with the Common Seal of the said Bank this_____ day of _____ 20_____.

THE CONDITIONS of this obligation are:

- 1 If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form ;
or
2. If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form ,if required; or
 - (b) fails or refuses to furnish the performance security, In accordance with the Instructions to Bidders/ Terms and Conditions;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that is its demand the purchaser will note that amount claimed by it is due to it, owing to the occurrence of one or both of the two condition(s), specifying the occurred condition or condition(s).

This guarantee will remain in force up to and including Ninety (90) days after the due date of submission bid, and any demand in respect thereof should reach the Bank not later than the above date.

(Stamp & signature of the bank)

Signature of the witness

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**ANNEXURE-III to NIT
SECTION-V**

PRICE FORMAT

ITEM DESCRIPTION	HSN	UoM	QTY	EX- WORKS RATE PER UNIT (Rs)	UNIT FREIGHT (Rs)	UNIT GST (CGST,SGST,IGST) AS APPLICABLE			UNIT LANDED COST (Rs)	TOTAL LANDED COST (Rs)
						CGST (Rs)	SGST/ UTGST (Rs)	IGST (Rs)		
SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND MAINTENANCE OF EHV (66 KV) CABLE FAULT LOCATOR MACHINE		NOS	01							
SUITABLE VAN FOR EHV (66 KV) CABLE FAULT LOCATOR		NOS	01							
SUPPLY, INSTALLATION, TESTING & COMMISSIONING AND MAINTENANCE OF 11 KV & LT CABLE FAULT LOCATOR MACHINE		NOS	01							
SUITABLE VAN FOR 11 KV & LT CABLE FAULT LOCATOR		NOS	01							
AMC FOR 5 YEAR AFTER WARRANTY PERIOD- EHV FAULT LOCATING MACHINE		NOS	01							
AMC FOR 5 YEAR AFTER WARRANTY PERIOD- 11KV AND LT CABLE FAULT LOCATING MACHINE		NOS	01							

NOTE:

- The delivery shall be as per the requirement and as per Purchase Order issued by BYPL.
- Purchase Order will be released as per the actual requirement. However, supplier has to deliver the material within the delivery schedule period as mentioned in PO.

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**ANNEXURE-IV to NIT
COMMERCIAL TERMS AND CONDITIONS**

Sl No.	Item Description	AS PER BYPL	BIDDER'S CONFIRMATION
1.	Price Validity	120 days from the due date/amended due date of submission of the Bid.	
2.	Price basis	a) Variable, FOR, BYPL Delhi store basis. Prices shall be inclusive of all GST, freight upto Delhi stores/sites. b) Unloading at stores/sites shall be in vendor's scope. c) Transit insurance in bidder's scope.	
3.	Payment terms	ii) SUPPLY: 80% payment shall be made within 45 days from the date of receipt and acceptance of GOODS and certification by Engineer In charge. iii) SERVICE: 20% Payment after completion of training of 3 months/tracing of 30 faulty cables whichever is earlier and successful acceptance testing, commissioning and Handing Over of the entire Installation and duly certified by BYPL Project-in-charge and submission of PBG of 10% of contract value valid up to Defect Liability period i.e. 60 months from the date of Handing over of entire Installation Plus 3 months towards Claim period.	
4.	Delivery schedule	GTP/Drawings/Documents to be submitted within 15 days from issue of Purchase Order. Delivery to be completed within 90 days from issue of manufacturing clearance/MDCC.	
5.	Defect Liability period	The bidder to Guarantee the materials / items supplied against any defect of failure, which arise due to faulty materials, workmanship or design for the entire defects liability period. The Defect liability period shall be 66 months from the date of commissioning or 60 months from the date of delivery whichever is earlier. If during the defects liability period any materials / items are found to be defective, these shall be replaced or rectified by the bidder at his own cost within 30 days from the date of receipt of intimation.	
6.	Penalty for delay	1% per week of delay of undelivered units or part thereof subject to maximum of 10% of total PO (ex-work) value of undelivered units.	
7.	Performance Bank Guarantee	10% of Total Contract value/PO value (each for supply and service) shall be valid for 60 months from the date of delivery and extra 3 months towards claim period.	
8.	Quantity Variation	The purchaser reserves the rights to vary the quantity by (+/-) 30% of the tender quantity.	
9.	Reverse Auction Event	In a bid to make our entire procurement process more fair and transparent, BYPL intends to use the reverse auctions through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as techno commercial qualified based on the tender requirements shall be eligible to participate in the reverse auction event.	

ANNEXURE-V to NIT

SCHEDULE OF DEVIATIONS

Vendor shall refrain from taking any deviations on this TENDER. Still in case of any deviations, all such deviations from this tender shall be set out by the Bidder, Clause by Clause in this schedule and submit the same as a part of the Technical Bid.

Unless **specifically** mentioned in this schedule, the tender shall be deemed to confirm the BYPL's specifications:

SL No.	Clause No.	Details of deviation with justifications

Bidder should also furnish the below details for future communication:-

GENERAL INFORMATION

NAME OF COMPANY

POSTAL ADDRESS

FOR TECHNICAL QUERY:

CONTACT PERSON NAME

DESIGNATION

E-MAIL

MOBILE No.

TELEPHONE No.

FOR COMMERCIAL QUERY:

CONTACT PERSON NAME

DESIGNATION

E-MAIL

MOBILE No.

TELEPHONE No.

Notwithstanding anything stated above, the Purchaser reserves the right to assess bidder's capability to perform the contract, should the circumstances warrant such assessment in the overall interest of the purchaser. In this regard the decision of the purchaser shall be final.

In case of new bidders (not enlisted in BSES), Factory inspection & evaluation shall be carried out to ascertain bidder's manufacturing/supply capabilities and quality procedures.

The manufacture/supplier should send the compliance of above mentioned parameters in technical offer and has to give an undertaking about no objection to verify his manufacturing facility as a part of tender process.

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ANNEXURE –VII to NIT

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed and stamped by the bidder prior to participation in the auction event)

In a bid to make our entire procurement process more fair and transparent, BYPL intends to use the reverse auctions through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as techno commercial qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid event:

1. BYPL shall provide the user id and password to the authorized representative of the bidder. (Authorization letter in lieu of the same be submitted along with the signed and stamped acceptance form)
2. BYPL will make every effort to make the bid process transparent. However, the award decision by BYPL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of BYPL, bid process, bid technology, bid documentation and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of BYPL.
6. In case of intranet medium, BYPL shall provide the infrastructure to bidders, further, BYPL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case of an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out rightly rejected by BYPL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at BYPL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder. No further communication will be there.
11. No requests for time extension of the auction event shall be considered by BYPL.
12. The original price bids of the bidders shall be reduced on pro-data basis against each line item based on the final all inclusive prices offered during conclusion of the auction event for arriving at contract amount.

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ANNEXURE – VIII to NIT

FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER TO AGENT (on letter head)

Ref. No. & Date:

To,

The Head Of Department,
Contracts & Materials,
BSES YAMUNA POWER LTD.,
3rd Floor 'A' Block
Shakti Kiran Building, Karkardooma
Delhi-110032

Sub.: Authorization Letter.

Dear Sir,

We, _____, who are established and reputed manufacturers of _____, having factory at _____, hereby authorize M/s. _____ (name & address of Indian distributor /agent) to bid, negotiate and conclude the order with you for the above goods manufactured by us. We shall remain responsible for the tender / contract / agreement negotiated by the said M/s. _____, jointly and severely.

We ensure that we would also support / facilitate the M/s _____ on regular basis with technology / product updates for up-gradation / maintains / repairing / servicing of the supplied goods manufactured by us, during the warranty period.

In case duties of the Indian agent / distributor are changed or agent / distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent / distributor.

Yours faithfully,

[

Name & Signature]

for and on behalf of M/s. _____ [Name of manufacturer]

Note: This letter of authorization should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarized power of attorney should also be furnished.

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ANNEXURE –IX to NIT

BIDDER DETAILS SUBMISSION FORM

Offer No.:

Date :

To,

The Head of Department
Contracts and Materials,
BSES YAMUNA POWER LIMITED,
3rd Floor 'A' Block,
Shakti Kiran Building, Karkardooma
Delhi-110032 (INDIA).

Dear Sir,

In response to your Tender No. CMC/BY/25-26/RS/SKS/ASR/30 for 'Supply, Installation, Testing, Commissioning & Maintenance of Cable Fault Locator machine' for BSES YAMUNA POWER LTD, Delhi-32, we hereby submit our offer herewith.

1. Bidder Name :
2. Website Address :
3. Email Address :
4. Address for Communication :

5. Telephone Number :

6. Fax/Telefax Number :

7. Authorized Person for Technical Queries -

Name :

a. Designation :

b. Mobile No. :

c. Email-ID :

8. Authorized Person for Commercial/R-Auction Queries -

a. Name :

b. Designation :

c. Mobile No. :

d. Email-ID :

e. PAN Number :

f. TIN Number :

g. Service Tax Regn. No. :

h. ECC Number :

i. GST Number :

j. Particulars of EMD

a. Amount : Rs.

b. Mode of Payment (BG) :

c. BG No. :

d. Date :

e. Name of the Bank :

f. Address of the Bank :

g. Validity of BG :

k. Particulars of Tender Fee

a. Amount : Rs.

b. DD No. :

c. Date :

d. Name of the Bank :

e. Address of the Bank :

l. Turnover of the Bidder in the last 3 Financial years (Please submit copy of Annual Report)

Year	Annual Report attached at Page No.	Turnover in Rs. (Crore)
2022-2023		
2023-2024		
2024-2025		
Average Turnover		

- m. Details of similar work / order executed during last 2 years (Please submit copy of supply/completion certificate from client.

Description of the Work/ Order executed	Value of Work/Order executed	Name of the Client	Start Date	Finish Date	Doc. Evidence at Page No.

18. Following Documents are submitted to substantiate other eligibility criteria.

- i)
- ii)
- iii)

DECLARATION

- 1) We have read and understood the terms & conditions of the above mentioned tender and comply with all Terms & Conditions of your Tender. (In case of any deviation the Bidder must attach a separate sheet clearly mentioning the Clause No. of the Tender and Deviation thereto).
- 2) We certify that the information mentioned above are true and correct to best of our Knowledge.
- 3) In case of receipt of order we confirm that payment shall be received through e-Banking /Electronics Transfer.
- 4) This offer contains No. of pages including all Annexure and Enclosures.

Place:

Signature of Authorized Signatory

Date:

Name :

Designation :

Seal :

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ANNEXURE-X to NIT

SELF DECLARATION FORM

Tender No: CMC/BY/25-26/RS/SKS/ASR/30

To,
The HOD
Contracts & Materials Dept
BSES Yamuna Power Ltd
Karardooma Delhi-110032

Subject: Declaration for Not blacklisted

Sir,

1. I / We, the undersigned do hereby declare that, I / We have never ever been blacklisted and / or there were no debarring actions against us for any default in supply of material/ Services or in the performance of the contract entrusted to us in any of the State Government, Central Government or any other public sector undertaking or a corporation or Electricity Utilities of India.
2. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/ contract shall be liable for truncation/ cancellation / termination without any notice at the sole discretion of the purchaser.

Yours faithfully

Place:

Date:

Signature of the bidder with seal

(This form shall be duly signed by the bidder & submitted along with the original copy of the bid.)

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SECTION V

VENDOR CODE OF CONDUCT

Purchaser is committed to conducting its business in an ethical, legal and socially responsible manner. To encourage compliance with all legal requirements and ethical business practices, Purchaser has established this Vendor Code of Conduct (the "Code") for Purchaser's Vendors. For the purposes of this document, "Vendor" means any company, corporation or other entity that sells, or seeks to sell goods or services, to Purchaser, including the Vendor's employees, agents and other representatives.

Fundamental to adopting the Code is the understanding that a business, in all of its activities, must operate in full compliance with the laws, rules and regulations of the countries in which it operates. This Code encourages Vendors to go beyond legal compliance, drawing upon internationally recognized standards, in order to advance social and environmental responsibility.

I. Labour and Human Rights

Vendors must uphold the human rights of workers, and treat them with dignity and respect as understood by the international community.

- Fair Treatment - Vendors must be committed to a workplace free of harassment. Vendors shall not threaten workers with or subject them to harsh or inhumane treatment, including sexual harassment, sexual abuse, corporal punishment, mental coercion, physical coercion, verbal abuse or unreasonable restrictions on entering or exiting company provided facilities.

- Antidiscrimination - Vendors shall not discriminate against any worker based on race, colour, age, gender, sexual orientation, ethnicity, disability, religion, political affiliation, union membership, national origin, or marital status in hiring and employment practices such as applications for employment, promotions, rewards, access to training, job assignments, wages, benefits, discipline, and termination. Vendors shall not require a pregnancy test or discriminate against pregnant workers except where required by applicable laws or regulations or prudent for workplace safety. In addition, Vendors shall not require workers or potential workers to undergo medical tests that could be used in a discriminatory way except where required by applicable law or regulation or prudent for workplace safety.

- Freely Chosen Employment - Forced, bonded or indentured labour or involuntary prison labour is not to be used. All work will be voluntary, and workers should be free to leave upon reasonable notice. Workers shall not be required to hand over government-issued identification, passports or work permits as a condition of employment.

- Prevention of Under Age Labor - Child labor is strictly prohibited. Vendors shall not employ children. The minimum age for employment or work shall be 15 years of age, the minimum age for employment in that country, or the age for completing compulsory education in that country, whichever is higher. This Code does not prohibit participation in legitimate workplace apprenticeship programs that are consistent with Article 6 of ILO Minimum Age Convention No. 138 or light work consistent with Article 7 of ILO Minimum Age Convention No. 138.

Juvenile Labor - Vendors may employ juveniles who are older than the applicable legal minimum age for employment but are younger than 18 years of age, provided they do not perform work likely to jeopardize their health, safety, or morals, consistent with ILO Minimum Age Convention No. 138.

- Minimum Wages - Compensation paid to workers shall comply with all applicable wage laws, including those relating to minimum wages, overtime hours and legally mandated benefits. Any Disciplinary wage deductions are to

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conform to local law. The basis on which workers are being paid is to be clearly conveyed to them in a timely manner.

- Working Hours - Studies of good manufacturing practices clearly link worker strain to reduced productivity, increased turnover and increased injury and illness. Work weeks are not to exceed maximum set by local law. Further, a work week should not be more than 60 hours per week, including overtime, except in emergency or unusual situations. Workers should be allowed at least one day off per seven-day week.

- Freedom of Association - Open communication and direct engagement between workers and management are the most effective ways to resolve workplace and compensation issues. Vendors are to respect the rights of workers to associate freely and to communicate openly with management regarding working conditions without fear of reprisal, intimidation or harassment. Workers' rights to join labour unions seek representation and or join worker's councils in accordance with local laws should be acknowledged.

II. Health and Safety

Vendors must recognize that in addition to minimizing the incidence of work-related injury and illness, a safe and healthy work environment enhances the quality of products and services, consistency of production and worker retention and morale. Vendors must also recognize that ongoing worker input and education is essential to identifying and solving health and safety issues in the workplace.

The health and safety standards are:

- Occupational Injury and Illness - Procedures and systems are to be in place to prevent, manage, track and report occupational injury and illness, including provisions to: a) encourage worker reporting; b) classify and record injury and illness cases; c) provide necessary medical treatment; d) investigate cases and implement corrective actions to eliminate their causes; and e) facilitate return of workers to work.

- Emergency Preparedness - Emergency situations and events are to be identified and assessed, and their impact minimized by implementing emergency plans and response procedures, including: emergency reporting, employee notification and evacuation procedures, worker training and drills, appropriate fire detection and suppression equipment, adequate exit facilities and recovery plans.

- Occupational Safety - Worker exposure to potential safety hazards (e.g., electrical and other energy sources, fire, vehicles, and fall hazards) are to be controlled through proper design engineering and administrative controls, preventative maintenance and safe work procedures (including lockout/tagout), and ongoing safety training. Where hazards cannot be adequately controlled by these means, workers are to be provided with appropriate, well-maintained, personal protective equipment. Workers shall not be disciplined for raising safety concerns.

- Machine Safeguarding - Production and other machinery is to be evaluated for safety hazards. Physical guards, interlocks and barriers are to be provided and properly maintained where machinery presents an injury hazard to workers.

- Industrial Hygiene - Worker exposure to chemical, biological and physical agents is to be identified, evaluated, and controlled. Engineering or administrative controls must be used to control overexposures. When hazards cannot be adequately controlled by such means, worker health is to be protected by appropriate personal protective equipment programs.

- Sanitation, Food, and Housing - Workers are to be provided with ready access to clean toilet, facilities potable water and sanitary food preparation, storage, and eating facilities. Worker dormitories provided by the Participant or a labour agent are to be maintained clean and safe, and provided by the Participant or a labour agent with egress, hot water for bathing and showering, and adequate heat and ventilation and reasonable personal space along with reasonable entry and exit privileges.

- Physically Demanding Work - Worker exposure to the hazards of physically demanding tasks, including manual material handling and heavy or repetitive lifting, prolonged standing and highly repetitive or forceful assembly tasks is to be identified, evaluated and controlled.

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III. Environmental

Vendors should recognize that environmental responsibility is integral to producing world class products. In manufacturing operations, adverse effects on the environment and natural resources are to be minimized while safeguarding the health and safety of the public.

The environmental standards are:

- . Product Content Restrictions - Vendors are to adhere to applicable laws and regulations regarding prohibition or restriction of specific substances including labeling laws and regulations for recycling and disposal. In addition, Vendors are to adhere to all environmental requirements specified by Purchaser.
- . Chemical and Hazardous Materials - Chemical and other materials posing a hazard if released to the environment are to be identified and managed to ensure their safe handling, movement storage, recycling or reuse and disposal.
- . Air Emissions - Air emissions of volatile organic chemicals, aerosols, corrosives, particulates, ozone depleting chemicals and combustion by-products generated from operations are to be characterized, monitored, controlled and treated as required prior to discharge.
- . Pollution Prevention and Resource Reduction - Waste of all types, including water and energy, are to be reduced or eliminated at the source or by practices such as modifying production, maintenance and facility processes, materials substitution, conservation, recycling and re-using materials.
- . Wastewater and Solid Waste - Wastewater and solid waste generated from operations industrial processes and sanitation facilities are to be monitored, controlled and treated as required prior to discharge or disposal.
- . Environmental Permits and Reporting - All required environmental permits (e.g. discharge monitoring) and registrations are to be obtained, maintained and kept current and their operational and reporting requirements are to be followed.

IV. Ethics

Vendors must be committed to the highest standards of ethical conduct when dealing with workers, Vendors, and customers.

- . Corruption, Extortion, or Embezzlement - Corruption, extortion, and embezzlement, in any form, are strictly prohibited. Vendors shall not engage in corruption, extortion or embezzlement in any form and violations of this prohibition may result in immediate termination as a Vendor and in legal action.
- . Disclosure of Information - Vendors must disclose information regarding its business activities, structure financial situation, and performance in accordance with applicable laws and regulations and prevailing industry practices.
- . No Improper Advantage - Vendors shall not offer or accept bribes or other means of obtaining undue or improper advantage.
- . Fair Business, Advertising, and Competition - Vendors must uphold fair business standards in advertising, sales, and competition.
- . Business Integrity - The highest standards of integrity are to be expected in all business interactions. Participants shall prohibit any and all forms of corruption, extortion and embezzlement. Monitoring and enforcement procedures shall be implemented to ensure conformance.
- . Community Engagement - Vendors are encouraged to engage the community to help foster social and economic development and to contribute to the sustainability of the communities in which they operate.
- . Protection of Intellectual Property - Vendors must respect intellectual property rights; safeguard customer information; and transfer of technology and know-how must be done in a manner that protects intellectual property rights.

V. Management System

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Vendors shall adopt or establish a management system whose scope is related to the content of this Code. The management system shall be designed to ensure (a) compliance with applicable laws, regulations and customer requirements related to the Vendors' operations and products; (b) conformance with this Code; and (c) identification and mitigation of operational risks related to this Code. It should also facilitate continual improvement.

The management system should contain the following elements:

- . Company Commitment - Corporate social and environmental responsibility statements affirming Vendor's commitment to compliance and continual improvement.
 - . Management Accountability and Responsibility - Clearly identified company representative[s] responsible for ensuring implementation and periodic review of the status of the management systems.
 - . Legal and Customer Requirements - Identification, monitoring and understanding of applicable laws, regulations and customer requirements.
 - . Risk Assessment and Risk Management - Process to identify the environmental, health and safety and labour practice risks associated with Vendor's operations. Determination of the relative significance for each risk and implementation of appropriate procedural and physical controls to ensure regulatory compliance to control the identified risks.
 - . Performance Objectives with Implementation Plan and Measures - Areas to be included in a risk assessment for health and safety are warehouse and storage facilities, plant/facilities support equipment, laboratories and test areas, sanitation facilities (bathrooms), kitchen/cafeteria and worker housing /dormitories. Written standards, performance objectives, and targets an implementation plans including a periodic assessment of Vendor's performance against those objectives.
 - . Training - Programs for training managers and workers to implement Vendor's policies, procedures and improvement objectives.
 - . Communication - Process for communicating clear and accurate information about Vendor's performance, practices and expectations to workers, Vendors and customers.
 - . Worker Feedback and Participation - Ongoing processes to assess employees' understanding of and obtain feedback on practices and conditions covered by this Code and to foster continuous improvement.
 - . Audits and Assessments - Periodic self-evaluations to ensure conformity to legal and regulatory requirements, the content of the Code and customer contractual requirements related to social and environmental responsibility.
 - . Corrective Action Process - Process for timely correction of deficiencies identified by internal or external assessments, inspections, investigations and reviews.
- . Documentation and Records - Creation of documents and records to ensure regulatory compliance and conformity to company requirements along with appropriate confidentiality to protect privacy.

The Code is modeled on and contains language from the Recognized standards such as International Labour Organization Standards (ILO), Universal Declaration of Human Rights (UDHR), United Nations Convention against Corruption, and the Ethical Trading Initiative (ETI) were used as references in preparing this Code and may be useful sources of additional information.

NIT NO:CMC/BY/25-26/RS/SKS/ASR/30 [RFx Number:2200000158]	Page 55 of 60	Bidders seal & Signature
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ANNEXURE-XI to NIT

SUPPLY LIST												
SL No	PO No.	PO Date	Item Description	UoM	PO Qty	Supplied		Customer Name	End User (shall be Utility/SEB's/PSU's) name and details	Financial Year	Purchase order copy enclosed at Page no.	Material delivery clearance certificate copy or Delivery completion certificates or Invoice Copies enclosed at Page no.
						Qty.	Date					
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

PERFORMANCE CERTIFICATES LIST												
S.N.	PO No	PO Date	Item Description	UoM	PO Qty	Supplied		Customer Name	End User (shall be Utility/ SEB's/ PSU's) name and details	Financial Year	Performance certificate Issued Date	Performance certificate Copy enclosed on Page no.
						Qty.	Date					
1												
2												
Total					Σ	Σ						

ANNEXURE-XII to NIT

Technical Bid Submission Check List

- (i) Submission of this duly filled checklist along with the bid is mandatory.
(ii) The order of documents shall be as per this technical bid submission checklist.
(iii) Bids with incomplete/ wrong information are liable for rejection.

Sl. No.	Description	BYPL Requirement	Bidder's Response
01.	Tender No.	Mention Details Here →	
02.	Tender Fee, EMD & Signed Bid Form as mentioned in the tender, if applicable	Mention Referred Bid Section Title & Page No	
03.	Bidder Details		
3.1	Name of the Bidder	Mention Details Here →	
3.2	Company Profile / Organogram	Mention Referred Bid Section Title & Page No	
3.3	Name of duly Authorized contact person (along with Authorizations to submit Bid)	Mention Details Here →	
3.4	Contact No. of duly Authorized contact person	Mention Details Here →	
3.5	E-mail Id of duly Authorized contact person	Mention Details Here →	
3.6	Bidder Reference Number	Mention Details Here →	
3.7	Unpriced Bid Sheet (Quoted/Not Quoted)	Mention Referred Bid Section Title & Page No	
04.	Documents Submission Format		
4.1	Documents shall be submitted in Box file/spiral binding in offline tenders and Original pdf for online along with 'Separator with document description' before each document	Confirmation (Yes / No)	
4.2	Index of documents with page numbers for each document	Mention Referred Bid Section Title & Page No	
05.	Signed Copy of tender as an unconditional acceptance	Mention Referred Bid Section Title & Page No	
06.	Qualification Criteria Requirement Compliance, If applicable	Confirmation (Yes / No)	
6.1	Summary of compliance of qualifying criteria in tabular form along with details of documentary proof provided	Mention Referred Bid Section Title & Page No	
6.2	Detailed Documents supporting compliance of qualifying criteria	Mention Referred Bid Section Title→	
07.	Technical Specification reference number	Mention Referred Bid Section Title→	
08.	Drawings/ Documents as per Technical Specification	Confirmation (Yes / No)	
8.1	Signed copy of technical specification	Mention Referred Bid	

NIT NO:CMC/BY/25-26/RS/SKS/ASR/30 [RFx Number:2200000158]	Page 58 of 60	Bidders seal & Signature
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		Section Title & Page No	
8.2	Type Test reports of offered model/ type/ rating	Mention Referred Bid Section Title & Page No	
8.3	Guaranteed Technical particulars (GTP)	Mention Referred Bid Section Title & Page No	
8.4	Deviation Sheet – Technical (along with soft editable copy)	Mention Referred Bid Section Title & Page No	
8.5	Detailed Drawings	Mention Referred Bid Section Title & Page No	
8.6	Manufacturer's Quality Assurance Plan	Mention Referred Bid Section Title & Page No	
8.7	Other drawings/ documents mentioned in technical specification	Mention Referred Bid Section Title & Page No	
09.	Soft copy of complete technical bid in pen drive	Confirmation (Yes / No)	
10.	Samples as per technical specification	To be submitted with the Bid	

VOLUME-III

SECTION - IX

TECHNICAL SPECIFICATION (TS)

**SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF
CABLE FAULT LOCATOR MACHINE**

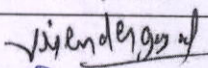
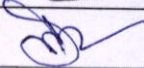
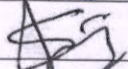
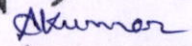
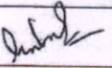
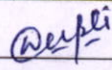

NIT No. CMC/BY/25-26/RS/SkS/ASR/30

Date of Tender: 10.12.2025



**TECHNICAL SPECIFICATION FOR
VEHICLE MOUNTED
CABLE FAULT LOCATING MACHINE SUITABLE FOR
11 kV, 33 kV & 66 kV CABLES**

SPECIFICATION NO – BSES-TS-166-CFLHV-R0

Rev:	0	
Date:	20 th Nov, 2025	
Prepared by	Vijender Goyal	
	Pronab Bairagi	
Reviewed by	Srinivas Gopu	
	Anupam Kumar	
	Amit Tomar	
	Deepti Sharma	
Approved by	Sheshadri Krishnapura	

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES**INDEX**

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VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES**Record of Revision**

Rev. No.	Revision Date	Item/ clause no:	Page No.	Nature of Change	Approved by

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES**1. General**

The vehicle mounted cable fault locating machine, powered by single phase 240 V AC supply suitable for safely, quickly and efficiently identify, locate and pin point the cable faults and having facility of cable diagnostic testing including VLF High Voltage Test, Tan Delta & Partial Discharge Testing.

Cable fault locating machine shall have following configuration:

1. Fault Pre location system having centralised control unit. Voltage selection & mode selection may be controlled through variable transformer, and
2. Fully automatic cable diagnostic testing including Partial Discharge, Tan Delta, & VLF High Voltage testing.
3. Cable Fault Pre Location & Diagnostic testing shall be centralised controlled from operator desk.

The following characteristics are especially important for the system's design:

- Sophisticated safety systems to protect the operator and the environment from hazardous conditions when applying HV
- Fully integrated control system operation
- User friendly, intuitive central user interface for easy operation
- Input power not to exceed 5kVA.

2. System Requirements

The operator should be able to perform all operating processes from one central control unit, featuring one minimum 15inch colour touch display. The system should have feature to be operated using keyboard & Mouse. This unit will process all fault location and test operations, inclusive the adjustment of all relevant test parameters, phase selection and data management / printing options.

All operation modes, techniques, parameter adjustments and safety controls must be fully integrated in the central system. The control panel shall provide the user interface to communicate and control the entire system

The system must provide state of the art USB interfaces for data download of all automatically or manually recorded and logged measuring processes, software upgrades and the connection of other devices like printers, laptops, etc. The user interface must provide an all-time available online help to support the operator. The system should be equipped with Mobile Charging points.

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

The system must eliminate any possibility for incorrect operations, which could jeopardize the safety of the operator or the integrity of the entire system or its components. Further it has to have an integrated report system.

The activation of all safety related functions shall be managed by direct galvanic access push buttons, instead of software activation, like "Mains on", "Mains off", "HV on", "HV off" and "Emergency Off".

3. Technical Requirement

3.1	Scope	<p>This specification covers the technical requirements of design, manufacture, maintenance, training, packing, forwarding, supply and unloading at site/store and performance of Fault Locating Van with all accessories for trouble free & efficient performance.</p> <p>This specification also covers the Familiarization and Training facility of the product as per the BSES requirement. The training shall be arranged at OEM/BSES works and hand holding for operations and analysis of data for one year post delivery of Fault Locating Van in Delhi, India.</p>
3.2	Applicable Standards	<ul style="list-style-type: none">a) IEC 60270: High Voltage Test techniques -Partial Discharge measurements.b) IEC 60229: Electric cables - Tests on extruded over sheaths with a special protective function.c) IEEE 400.4-2015: Field testing and evaluation of the insulation of shielded power cable systems.d) IEC 60060-3: High Voltage test techniques –Definitions and requirements for on-site testinge) IEEE 400.2.2013: Field Testing of shielded power cable system using VLF (less than 1 Hz)f) IEEE 400 : Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems Rated 5 kV and Aboveg) IEEE 1234 : Fault-Locating Techniques on Shielded Power Cable Systems
3.3	Climatic condition of services	<ul style="list-style-type: none">a) Maximum ambient temperature: 50 °Cb) Minimum ambient temperature: 0 °Cc) Average ambient Temperature: 40 °Cd) Maximum Humidity : 90%e) Seismic Zone : Zone IV as per IS : 1893f) Average annual rainfall : 1000 mm <p>The equipment shall be suitable for operations as per Indian Climatic Conditions.</p> <p>The atmosphere is generally laden with mild acid and dust suspended during dry months and subjected to fog in cold months. The design of the equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1g.</p>

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

3.4	General Technical Requirements	S.No	Description	Unit	
		A	Cable Route Tracer		
			Transmitter		
		1	Output Power	50W	
		2	Increment	continuously adjustable	
		3	Open Circuit Voltage (VoC)	vendor to specify	
		4	Output frequencies	vendor to specify	
		5	IP Class	IP 54	
		6	Power Supply	100-240V AC 50Hz and built in rechargeable battery	
		7	Cable length to measure	20-25 Kms	
		8	Navigation Pointer	Required	
		Route tracer shall be suitable for ON line (through inductive clamps) and OFF line mode both.			
3.5	Audio Receiver	S.No	Description	Requirements	
		1	Receiver frequencies		
		(a)	Passive	50Hz	
		(b)	Active	As per transmitter output frequencies, additionally a 50Hz receiving mode to be provided	
		2	Power supply	Alkaline rechargeable batteries.	

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

3.6	Generator Set	S. No	Description	Requirements
		1	Rated Voltage	The rated Voltage shall be 220 V
		2	Frequency	50 Hz
		3	Fuel	a) The Vehicle shall have petrol fuelled GENSET with appropriate fuel Exhaust arrangement.
		4	Power Rating	The power rating of GENSET shall be suitable for operating testing equipment of Fault Locating van. The Generator shall be equipped with Self Starting by key
3.7	General Construction:	<p>The entire operation should be carried out through central control unit in combination with software interface. The system shall be modular based so that in case one mode is non-operational, day to day fault location activity must not hamper.</p> <p>The system must consist of modern interfaces, preferably USB e.g.: for a memory stick, Printer preferably a colour printer.</p> <p>All equipment must be installed such that they are compatible for a moving Vehicle and easily bear the vibrations as per the city road conditions.</p> <p>These interfaces must be accessible to enable an updating of the measuring system and recording or logging of all measuring processes. An online help shall support the operator. Operation shall be in English or with help of ICONS.</p> <p>Operating errors should be eliminated by the system.</p> <p>Keys with firm function like Mains "ON", Mains "OFF" and Emergency "OFF" shall be designed as switches with direct functionality.</p> <p>The cable test VAN shall have following features:</p> <ul style="list-style-type: none"> A. Insulation Measurement/ Capacitive Measurement B. Fault Pre-location C. Fault Pin Pointing D. Safety Requirement E. Cable Route Tracer F. VLF and Tan Delta Diagnosis G. PD Measurement H. Sheath Testing and Pin Pointing I. Vehicle and J. GENSET 		

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

		<p>K. Connection point for Laptop and its integration with system.</p> <p>L. FRP collapsible insulated Discharge Rod with 5 meter lead</p> <p>M. Cable identification Kit</p> <p>N. Murray Loop test</p> <p>O. Digital multimeter</p> <p>P. Measuring wheel</p> <p>Q. Tool kit (32 pieces)</p> <p>R. Earth spike rod</p>
3.8	Cable connection	<p>LV connection cables</p> <p>The following cables should be available :</p> <ol style="list-style-type: none"> 60 m mains cable 2 x 4 mm² on hand-operated cable drum with slip ring 60 m earthing cable 16 mm², on hand-operated cable drum 60 m auxiliary earthing on hand operated cable drum 15 m external step voltage monitoring cable, on hand-operated cable drum isolation transformer with min.5 kVA. <p>HV connection cables</p> <ul style="list-style-type: none"> 1-phase cable, 60 m, HV shielded EPR cable on a hand operated cable drum
3.9	Insulation Measurements / Capacitive measurements	<p>Insulation measurement must function up to a minimum of 2 GΩ (plus a test voltage of 500 V minimum preferably 1000 V) with integrated capacity measurement up to a minimum of 19 μF.</p> <p>The insulation module should be fully controllable by the central control unit and be integrated in the system.</p>
3.10	DC Testing	<p>High Voltage DC Test operations up to a minimum 80kV shall be accessible from central control unit with automatic cut off after Breakdown or over current and recording & logging of Voltage and current during the testing period shall be provided</p> <p>The DC Module can be used for Dielectric testing of cables according to IEEE 400.1 and also as a HV power supply to charge the surge generator.</p> <p>The following minimum requirements must be fulfilled:</p> <p>DC Testing shall be available in minimum three steps:</p> <p>0 – 8kV, 500 mA(Burning)</p> <p>0 – 40kV, 250 mA(Burning)</p> <p>0 – 80kV, 180 mA(Burning)</p>
3.11	Measuring Wheel	<p>A measuring Wheel with ODOMETER shall be included to correctly measure the Cable Length.</p>

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

3.12	Fault Pre-location	<p>A pulse reflection measurement (TDR) with digital signal processing and an integrated transient recorder should be fully integrated in the central control of the system. It should work on TDR/ARM/ICM/SIM/MIM/Decay Method or equivalent.</p> <p>a. Operating modes :</p> <ul style="list-style-type: none">- 1-phase TDR measurement via HV cable- Multiple phase comparison via memory- Differential measurement via memory- Averaging function for noise suppression- Operating mode for intermittent faults <p>b. Connection to test object:</p> <ul style="list-style-type: none">- 1-phase measurement via HV output cable <p>c. To support the operator, the TDR should feature the following technologies:</p> <ul style="list-style-type: none">- Automatic far end detection in all operating modes- Automatic parameter adjustment- Automatic fault location, indication and marking of the fault position in all operating modes.- Automatic recording of all measurements in in-built memory with data backup. The memory must be able to store at least a record of 200 graphs.- Measurement data recorded as .pdf files- Database software for further processing and recording.- Zoom-in feature shall be provided to observe TDR trace at the fault or specific landmark location at a higher gain- TDR shall have a distance dependent gain feature to overcome the natural signal attenuation- Measuring range should be at least 50 Kms- The system must provide a backup and recovery facility for the operational software, in case of malfunction- The System software shall be integrated or capable of integration with Google maps.- There should be regular software updates possible to provide the latest features.
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VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

		<p>The various methods of HV fault location required will be</p> <ul style="list-style-type: none">- Passive ARC Reflection, method: ARM/SIM (with active low voltage TDR pulse adjustable up to minimum 160V) for shorter cables typically 5Kms. For Maximum current and voltage availability at the fault location, it shall employ a pure choke type energy separation filter.- Active ARC Reflection for long cables >5Km, method: ARM with double surge (with active high voltage TDR pulse of minimum 1500V/4kV). This helps in detecting faults on long cables.- Current decoupling method: current impulse/ ICE. This is typically used for long cables.- Passive Voltage Decoupling method: Voltage Decay method for high resistive and intermittent fault <p>The TDR in both the passive and active ARC reflection method shall offer a multi-shot feature, instead of 1TDR pulse 15 pulses are released over a defined time period, allowing capturing the TDR traces when the current in the arc is or close to its maximum value, providing the optimum negative reflection of the TDR pulse. This feature is important when dealing with faults that have a distinct delay in flashing over at known time.</p>
3.13	Fault Pinpointing	<ul style="list-style-type: none">- The integrated surge generator should have Surge steps for ARM/SIM, ICE, ARM with double surge method/decay method as following: <p>Voltage Range:</p> <ul style="list-style-type: none">i. For 11 KV Machine – 4 kV, 8 kV, 16 kVii. For 33 & 66 KV Machine – 8 kV, 16 kV, 32 kV <p>Energy Range:</p> <ul style="list-style-type: none">i. For 11 kV Machine – 2000 Joules (min)ii. For 33 & 66 kV Machine – 2400 Joules (min) <p>The module should contain all the important safety features for the operator and the cable under test. The output voltage of the surge</p>

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

generator should be continuously adjustable between 0 and the maximum value of the selected range. All operations should be possible via the central control unit.

The pinpoint receiver has to be state of the art:

Windproof ground microphone, bright light and sun-readable colour display on the receiver and an easy to use user-interface are basic requirements. It shall include a receiver, ground sensor, headphones and different kinds of ground spikes and plates for different applications.

The fault location needs to be possible through the magnetic field and sound signal coincidence method with the following specifications:

- Equipment shall be capable of pin pointing sheath fault using step potential method.
- High acoustic and magnetic field sensitivity for Digi phone.
- Selective measurement of the transit time of the flashover noise with display of result in Meters or milliseconds.
- High performance electronic suppression of external noise and interference
- Excellent acoustic characteristics
- Active ear protection by a 84 db (A) limiter
- Measurement of magnetic field and sound coincidence with automatic selection and calibration of the measuring range
- Automatic contactless turn-off of the headset, as soon as the hand reaches the handle
- Indication of the cable position with respect to the sensor
- Indication of the direction to the fault
- It should indicate the depth of the cable.
- Built in adjustable filters for the suppression of interference

The receiver's software shall provide the following specifications:

- Comparison of last and the new measurement
- Graphical indication of the magnetic field
- Peak hold of the magnetic field value

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

		<ul style="list-style-type: none"> - Indication of the acoustic signal detection - Indication of all adjustments and settings 																								
3.14	VLF Testing and Tan Delta Diagnosis	<p>The Equipment should have following features</p> <table> <tr> <th>S.No</th><th>Description</th><th>Requirements</th></tr> <tr> <td>1</td><td>Voltage Shapes</td><td>VLF Sinus</td></tr> <tr> <td>2</td><td>Frequency</td><td>- 0.01 Hz to 0.1 Hz</td></tr> <tr> <td>3</td><td>VLF Sinus/-</td><td> For 11 kV: 21 kV rms(min), 14 mA (min) For 33 & 66 kV: 84 kV rms(min), 20 mA (min) </td></tr> <tr> <td>4</td><td>Resolution</td><td>0.1 kV in all the ranges</td></tr> <tr> <td>5</td><td>Parameters to Display</td><td>Applied voltage, current, resistance, capacitance, Duration, Shape of applied voltage</td></tr> <tr> <td>6</td><td>Tan Delta Measuring Resolution</td><td>Resolution- 1×10^{-6} Measurement- 0.1×10^{-3} to 1000×10^{-3}</td></tr> <tr> <td>7</td><td>Accuracy</td><td>1×10^{-4}</td></tr> </table>	S.No	Description	Requirements	1	Voltage Shapes	VLF Sinus	2	Frequency	- 0.01 Hz to 0.1 Hz	3	VLF Sinus/-	For 11 kV: 21 kV rms(min), 14 mA (min) For 33 & 66 kV: 84 kV rms(min), 20 mA (min)	4	Resolution	0.1 kV in all the ranges	5	Parameters to Display	Applied voltage, current, resistance, capacitance, Duration, Shape of applied voltage	6	Tan Delta Measuring Resolution	Resolution- 1×10^{-6} Measurement- 0.1×10^{-3} to 1000×10^{-3}	7	Accuracy	1×10^{-4}
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7	Accuracy	1×10^{-4}																								
3.15	Partial Discharge Measurement	<p>The Equipment shall be suitable for Partial Discharge location & measurement of all types of cables up to nominal Voltage of 66kV. The partial discharge diagnosis is intended for both cables commissioning of newly installed cables and for condition monitoring of aged cable circuits. It has to be a separate unit, which can be placed close to the test object. The excitation voltages for the PD diagnosis should be generated by the VLF generator. For commissioning it should be possible to combine the pure withstand test with a PD diagnosis in order to save time. The PD Diagnostics and measurement should have following:</p> <table> <tr> <th>S.No</th><th>Description</th><th>Requirements</th></tr> <tr> <td>1</td><td>Voltage Shape</td><td> 1. VLF Sinus according to IEC 60060, IEC 60502, IEEE 400.2.2013 2. Damped AC (if required) </td></tr> </table>	S.No	Description	Requirements	1	Voltage Shape	1. VLF Sinus according to IEC 60060, IEC 60502, IEEE 400.2.2013 2. Damped AC (if required)																		
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VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

		2	VLF Sinus	For 11 kV: 21 kV rms(min) For 33 & 66 kV: 84 kV rms(min)
		3	Capacity of coupling capacitor	25Nf
		4	Resolution	+/- 1Pc
		5	Noise level	<2Pc
		6	Measuring Range	20-25 Km
		7	Accuracy	1% of cable length
		<p>a. The PD detector add-on should fulfil the following requirements:</p> <ul style="list-style-type: none"> - Monitored withstand test (MWT): Simultaneous VLF withstand test, Tan Delta and Partial Discharge (PD) with similar wave form ideal for commissioning testing of newly installed cable circuits and maintenance test for aged cable - Non-destructive PD diagnosis with VLF sinus - Non-destructive PD Diagnosis with proven damped AC voltage) (if required) <p>b. A user-friendly PD software with following specifications:</p> <ul style="list-style-type: none"> - Internal powerful data base, simplified searching, browsing and administration of measurement data - Fully automatic calibration - Live PD-Mapping, data evaluation in real time during the actual Measurement - Report generation with possibility to store predefined templates - The Partial discharge testing & location shall be based on VLF sinus. Damped alternating current principle (if required) <p>The output frequency of the PD measurement unit shall be in the range of 0.01-0.1 Hz</p> <p>PD Detector Voltage: For 11 kV: 21 kV rms(min) For 33 & 66 kV: 84 kV rms(min)</p>		

VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES

3.16	Sheath Testing and Pinpointing	<ul style="list-style-type: none">- The test consists of a dielectric withstand test of the sheath on a given time period.- The sheath test module has to be integrated and operated from the central control module. A stand alone sheath testing, pre location and sheath fault pointing equipment may be supplied.- The Voltage range shall be from 0 – 10kV, Murray loop method for pre location- A pulsed HV DC output with selectable pulse rates for pinpointing has to be available.- Sheath fault pre location through murray bridge method
3.17	Safety requirement	<ul style="list-style-type: none">- Separation of operational and protective earthing in conjunction with an isolating transformer.- Protective earthing cable, minimum 16 mm² for equity in potential between cable test van and station ground.- Fault voltage protection facility for monitoring the maximum permissible contact voltage between the test van and the surrounding earth, and of quick voltage increases with max. 1 during high voltage operation.- Monitoring the resistance of the connected station ground and protective earth for safe parameters in conformity with VDE.- Safety switching device with warning lights and an external Emergency-Off switch.- Automatic discharge and earthing switch.- Safety contacts on the doors.- Partition panel between HV cabin and operating cabin.- Floor of the Vehicle should be suitably insulated- Analogue indication of residual high voltage at the test object in case of a mains failure.- Caution plate (6 nos. Minimum) shall be provided along with Van. Following are the required parameters for Caution

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		<p>plates</p> <ol style="list-style-type: none"> Plate shall be painted by fluorescent paint Tie shall be provided to bind on cable Printing shall be- <ol style="list-style-type: none"> "Danger Plate" "BSES Rajdhani Power Limited/BSES Yamuna Power Limited" "EHV Cable Under Test" "Mobile No....."
3.18	Vehicle	<ul style="list-style-type: none"> - All cable test equipment should be installed in a vehicle as consistent with lowest possible dimensions. - System should be fitted in a Force traveller van or any equivalent Indian make. - Seating space should be provided for minimum 3 additional persons apart from Driver. - The Van should include an operator's station in the form of a table with storage space and Swivel chair with locking facility. - Partition panel between HV cabin and operating cabin. - The operator's cabin and driver cabin should be fully air conditioned. - Van should be CNG based. - The van must have availability of single phase supply of 220kV, 50 Hz as required for station uses. - It should have USB Mobile charging points (2 Nos.)
3.19	Name Plates and Marking	<p>Name Plate:</p> <ol style="list-style-type: none"> Fixing by rivet only Material : Anodized aluminum 16SWG / SS Background : Satin Silver Letters, diagram & border : Black Process : Etching Printing Details: Month & year of manufacture, equipment type, input & output rating, purchaser name & order number, guarantee period <p>Marking: The Fault Locating van shall be painted with white colour. The vehicle shall have markings as "BSES Rajdhani Power Limited/BSES Yamuna Power Limited" in standard BSES colour along with BSES LOGO at suitable locations. A marking with EHV Cable Fault Locating Van. A marking depicting HIGH VOLTAGE CABIN should also be given on the Vehicle including Danger Plate</p>

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3.20	Tests	<p>Type Test: All the accessories must be type tested from CPRI/ERDA/any other international laboratory in accordance of IEC/IEEE/IS and the report shall not be older than 5 years. Type test report validity is 5 years from the date of tender floating.</p> <p>In case of expired type test (type test report is older than 5 years), bidder has to conduct the test in accordance with IEC/IEEE/IS from above mentioned laboratory from BSES PO without any cost implication to BSES.</p> <p>Routine Test and Acceptance Test: All the routine and acceptance tests shall be carried out in accordance with the relevant IS/IEC standards. All the Routine/Acceptance tests shall be witnessed by “BSES Rajdhani Power Limited/BSES Yamuna Power Limited” authorised representative or any other agency deputed by BSES</p>
3.21	Warranty	<p>All the Fault Locating equipment (Fault Locator, VLF Testing equipment, Tan Delta measurement equipment, PD Diagnostic equipment, Sheath Testing equipment, Cable route tracer and other allied instruments such as Acoustic set, Digiphone etc.) including all consumables and associated accessories as well as vehicle and its consumables shall be under warranty for Five years. This should also include Air conditioning system and lighting system also. Bidder should indemnify for all software updates for Five years. Hand holding for training, operations and analytics of the results should also be covered under warranty for at least one year.</p> <p>Registration of the vehicle in the name of BSES Rajdhani Power Limited/BSES Yamuna Power Limited shall be in the scope of vendor</p>
3.22	Demo	<p>The OEM shall provide the demonstration of the vehicle covering all the factors i.e. Fault Location, VLF Testing for PD, Tan Delta, Cable Route Tracer and Acoustic instrument at BSES site.</p>
3.23	Pre Dispatch Inspection	<p>BSES reserve the right to conduct the inspection at any stage of manufacturing as well as before final clearance for dispatching without any intimation to OEM. For dispatch clearance, OEM must raise inspection call at least 10 days before from the proposed date of inspection.</p>

4. Deviation

4.1	Deviation	<p>Deviations from this Specification shall be stated in writing with the tender by reference to the Specification clause/GTP/Drawing and a description of the alternative offer. In absence of such a statement, it will be assumed that the bidder complies fully with this specification.</p>
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VEHICLE MOUNTED CABLE FAULT LOCATING MACHINE SUITABLE FOR 11, 33 & 66 kV CABLES**5. Quality Assurance:**

Vendor Quality Plan: To be submitted for purchaser approval

Inspection Points: To be mutually identified & agreed in quality plan

6. Drawing, Data and Manuals:

To be submitted along with the bid:

- a. Complete filled GTP and MQAP
- b. Type Test Certificate
- c. Complete Catalogue and manual

Submission required prior to dispatch

- a. Inspection and test reports carried out in manufacturer's works
- b. Test Certificate of all bought out items.

7. Shipping

The seller shall give complete shipping information concerning the gross weight, size of each packing and the seller has to send the materials to buyer's preferable store or site.

8. Handling & Storage

Manufacturer instruction shall be followed. Detail handling & storage instruction sheet / manual needs to be furnished before commencement of supply.

9. Transit damage

The seller shall be responsible for any transit damage due to improper packing or transport

Annexure –A: Deviation sheet format.

Sl. No.	Document Name	Clause No.	Deviation	Reason	Merit to BSES