

NOTICE INVITING TENDER (NIT)

SUPPLY

OF

**66kV XLPE INSULATED ALUMINIUM CONDUCTOR
POWER CABLE OF SIZES 1CX630 & 1CX1000 MM²**

**NIT NO: CMC/BY/25-26/RS/SkS/SV/41
[RFx Number: 2200000174]**

Due Date for Submission: 06.03.2026, 15:00 HRS

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

CIN: U40109DL2001PLC111525

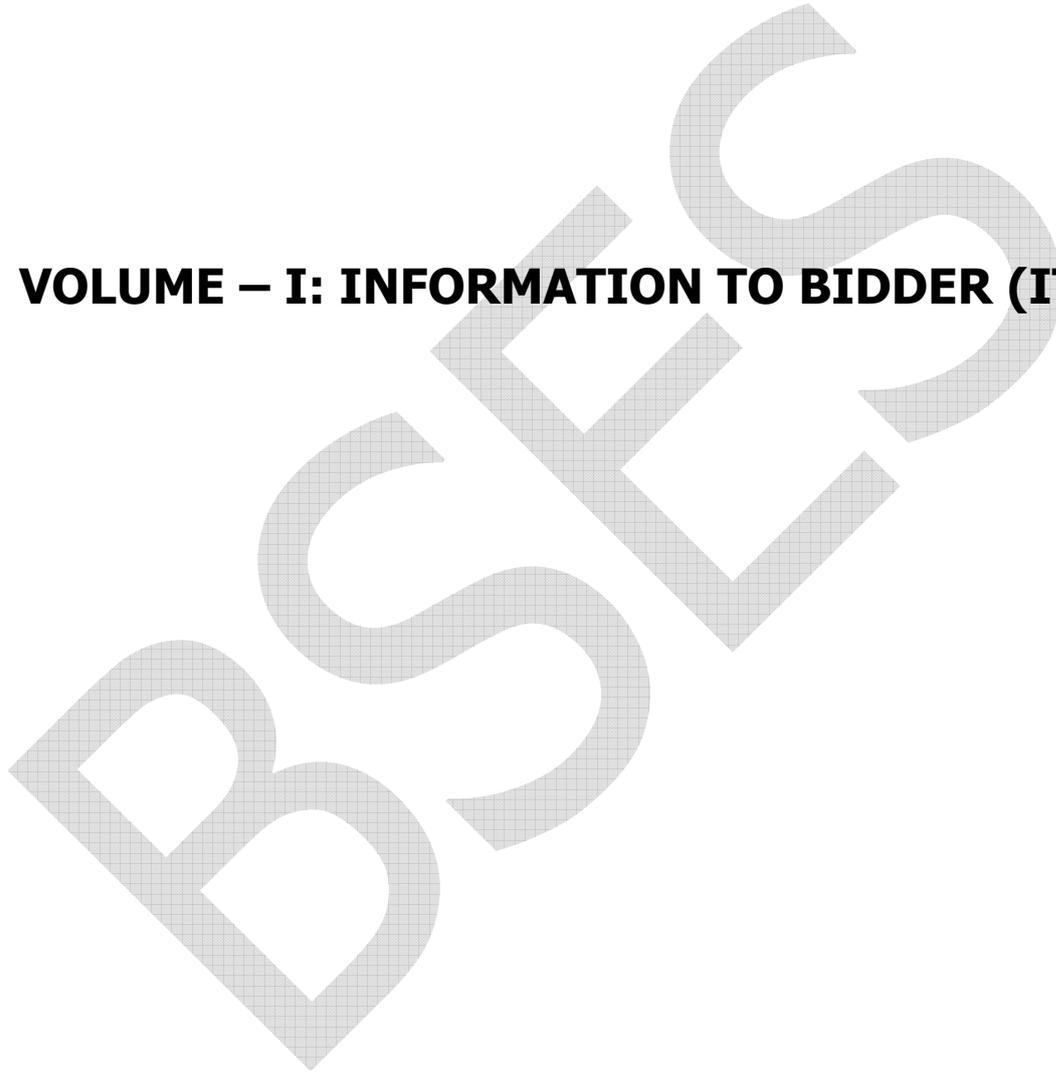
WEBSITE: www.bsesdelhi.com

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VOLUME – I: INFORMATION TO BIDDER (ITB)



<p>INFORMATION TO BIDDER (ITB) NIT NO: CMC/BY/25-26/RS/SKS/SV/41 [RFx Number: 2200000174]</p>	<p>Page 1 of 17</p>	<p>Bidders seal & Signature</p>
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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 **Open Tender** in the E-Tender Bidding Process on a “Single Stage: Two Parts” from interested Bidders as detailed below:

Table 1: Package Details

Tender Description	Tender Fee (₹)	Estimated Cost (₹)	EMD Amount (₹)	BYPL Delivery Location
Supply of 66kV XLPE Insulated Aluminium Conductor Power Cable of sizes 1Cx630 & 1Cx1000 mm ² (with extruded semi-conductive layer only)	1,180	3.50 Crore	7.00 Lakh	Delhi Store(s)/Site(s)

The bidder must qualify the requirements as specified in clause 2.0 stated below.

1.02 The tender document can be downloaded from our website www.bsedelhi.com by navigating to → **BSES YAMUNA POWER LTD** → **Tender** → **Open Tenders** or access our e-tendering portal directly at <https://srmpdportal.bsedelhi.com/irj/portal> to view and participate in the tender.

1.03 **Tender Fee:** The bidder must compulsorily submit the non-refundable tender fee of ₹ 1,180/- either as a demand draft or via online transfer through IMPS, NEFT, or RTGS to cover the cost of bid documents. Bids submitted without the Tender fee will be rejected.

1.04 **Earnest Money Deposit (EMD)** as specified in Table 1, must be valid for 120 days from the bid submission due date. It should be submitted in the form of BG, FD, or online transfer of the required amount through IMPS, NEFT, or RTGS. Bids submitted without the EMD will be rejected.

1.05 Time Schedule

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

S. No.	Events	Due date & Time
1	Date of availability of tender documents from BYPL Website & SRM	up to 06.03.2026, 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 Zoom Meeting link: https://zoom.us/j/98900117400?pwd=VdfXqaNrr2YhUrIV0YdcXbNDzPwinq.1 After registering, you will receive a confirmation email containing information about joining the meeting.	19.02.2026, 15:00 Hours
3	Last Date of receipt of pre-bid queries, if any (Queries to be submitted via e-mail)	19.02.2026 up to 18:00 Hours
4	Last Date of replies to all the pre-bid queries as received	23.02.2026 up to 17:00 Hours
5	Last date and time of receipt of Complete Bids (Tender Fees, EMD, Part A & Part B)	06.03.2026, 15:00HRS
6	Date & Time of Opening of PART A - EMD and Technical Bid	06.03.2026, 16:00HRS
7	Date & Time of opening of Price/RA of qualified bids	Will be notified to

		the qualified bidders through our website/e-mail
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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.

1.06 The Bid shall be submitted online in two (02) parts as detailed below:

- **Part A - Techno Commercial Bid**
- **Part B - Financial (Price) Bid**

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 require original submission, such as the Tender Fee (in the form of DD), Earnest Money Deposit (EMD) (in the form of BG/FD/DD as applicable), samples (where applicable), and any other documents specified in the tender documents, must be delivered to the BYPL office at the address below on or before the bid submission deadline:

**Head of Department
Contracts & Materials Deptt.
BSES Yamuna Power Ltd
Reception, Ground Floor
Shaktikiran Building, Karkardooma
Delhi 110032**

Opening of Bids:

- **Part A (Techno-Commercial Bid):** Shall be opened online.
- **Part B (Financial Bid):** Shall be opened online only for Techno-Commercially qualified bidders. The date and time of opening Part B will be communicated separately in due course.

It shall be the sole responsibility of the bidder to ensure that the bid documents are submitted online and/or reach the above office on or before the last date and time specified.

All envelopes shall be duly superscribed "**NIT NO: CMC/BY/25-26/RS/SKS/SV/41 [RFx No: 2200000174]**" "**Supply of 66kV XLPE Insulated Aluminium Conductor Power Cable of sizes 1Cx1000 & 1Cx630 mm²**" **DUE ON 06.03.2026, 15:00 Hr.**"

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

- a) Tender is received after the due date and time.
- b) Tender fee of requisite value is not submitted.
- c) Earnest Money Deposit (EMD) of requisite value & validity is not submitted.
- d) Financial Bid, as per the prescribed Price Schedule, is not submitted.
- e) The bid is incomplete in any respect.
- f) The required documents in support of the Qualification Requirements mentioned in Section 1, Clause 2.0 of this Tender Document are not furnished.
- g) Complete documents and details as per the Bid Index for Part-A (Technical Bid) at Appendix I – Annexure 1.01 are not enclosed.
- h) Filled in Schedule of Deviations as per Annexure is not submitted.

2.00 QUALIFICATION CRITERIA

The prospective bidder must qualify for all of the following requirements and shall be eligible to participate in the bidding who meets the following requirements and management has a right to disqualify those bidders who do not meet these requirements.

2.01 Technical Criteria:

S. No.	Criteria	Documents to be submitted by the bidder
1	The Bidder should have its own manufacturing facility in India for the last three (03) years for 66KV or higher voltage grade Power Cables.	i. OEM Valid Certificate of Incorporation & Factory (Manufacturing) Licence. ii. Detailed list of manufacturing units, their locations, and the specific works from which supplies shall be made against this tender, submitted by the OEM.
2	The bidder must have a Dry cure and Dry cooling CCV/VCV line for manufacturing 66kV and above voltage grade cables.	Self-Undertaking
3	The bidder should have supplied at least 25km of cable size 66KV 1C X 1000 / 1C X 630 mm ² or higher voltage or higher size & rating in the last 5 years to any utilities/ SEB's/ PSU's/ reputed companies wherein the end-user shall be utilities/ SEB's/ PSU's.	i. Summary list of executed Purchase orders (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.09) ii. Copies of the relevant Purchase Orders iii. Material delivery clearance certificate copy or Invoice Copies or Delivery completion/ Performance certificate
4	Performance certificate for minimum 2-year satisfactory performance for cable size 66KV 1C X 1000 / 1C X 630 mm ² or higher voltage or higher size & rating supplied in last 7 years from the date of bid opening from at least two utilities/ SEB's/ PSU's/ reputed companies wherein the end-user shall be utilities/ SEB's/ PSU's. In case of bidder has a previous association with BRPL/BYPL for similar product and service, the performance feedback for that bidder by BRPL/BYPL shall only be considered irrespective of performance certificate issued by any third organization.	Performance Certificates (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.10)
5	The bidder should have a manufacturing capacity of a minimum 15 km per month.	Installed Manufacturing Capacity (duly certified by the CE/CA/DIC/Self-Undertaking/ Government Organization/others)
6	The bidder must possess valid ISO 9001:2015 certification or above.	Valid copy of Certification

2.02 Commercial Criteria:

S. No.	Criteria	Documents to be submitted by the bidder
7	The bidder must have an Average Annual Sales Turnover of Rs 300 Crores or more in	i. Audited Balance Sheet and Profit & Loss Account Or

	the last three (3) Financial Years (i.e. FY 2022-23, 2023-24, and 2024-25).	ii. Duly certified CA certificate having UDIN to be submitted (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.14)
8	The bidder must submit an undertaking stating that “No Litigation” is pending with BYPL or any of its group/associate companies as of the date of bid opening.	Self-Undertaking (as per the format enclosed in APPENDIX I - ANNEXURE – 1.15) (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.14)
9	The bidder must submit an undertaking (self-certification) that they have not been blacklisted or debarred by any Central / State Government Institution or Electricity Utility in India as of the date of bid opening.	Self-Undertaking (as per the format enclosed in APPENDIX I - ANNEXURE – 1.15) (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.14)
10	The bidder must hold a valid PAN and GST Registration Number, and shall undertake to comply with all other applicable statutory laws and regulations prior to commencement of supply/work.	i. Copies of PAN and GST registration certificates ii. Self-undertaking confirming compliance with all statutory obligations (as per the format enclosed in APPENDIX I - ANNEXURE – 1.15) (Details to be submitted as per the format enclosed in APPENDIX I - ANNEXURE – 1.14)

Notwithstanding anything stated above, BYPL reserves the right to assess the bidder’s capability to perform the contract, assess the capability and installed capacity of the Bidder for carrying out the supplies, should the circumstances warrant such assessment in the overall interest of the purchaser. In this regard the decision of the purchaser is final.

3.00 BIDDING AND AWARD PROCESS

Bidders are requested to submit their offer strictly in line with this tender document. Normally, the deviations to tender terms are not admissible and the bids with deviations are liable for rejection. Hence, the bidders are advised to refrain from taking any deviations on this Tender. Still, in case of any deviations, all such deviations shall be set out by the Bidders, clause by clause in the “Annexure - Schedule of Deviations” and the same shall be submitted as a part of the Technical Bid.

3.01 BID SUBMISSION

BIDS ARE INVITED THROUGH THE E-PROCUREMENT PORTAL:

BSES will carry out E-Procurement through its e-procurement portal (<https://srmpportal.bsedelhi.com/irj/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 Sumit Verma, E-mail: Sumit.Ra.Verma@@reliancegroupindia.com
2. Mr Rakesh Sharma, E-mail: Rakesh.Ku.Sharma@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 the Power of Attorney in favour of the above-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.

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 require original submission, such as the Tender Fee (in the form of DD), Earnest Money Deposit (EMD) (in the form of BG/FD/DD as applicable), samples (where applicable), and any other documents specified in the tender documents, must be delivered to the BYPL office at the address below on or before the bid submission deadline.

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

The bids documents and the outer envelope shall be addressed to the following:

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

Kindly Note:

- The bidder has to ensure that the tender documents is dropped in the correct box designated for tender submission only.
- BYPL shall not be responsible for any wrong placement of tender documents by the bidder.

This is a two-part bid process. Bidders must submit their bids online in two parts - Part-A: Technical Bid & Commercial Terms & Conditions, and Part-B: Financial Bid - on the designated folder of the e-procurement portal before the due date and time specified in the tender. For detailed instructions, please refer to the user manual available at <https://srmpportal.bsesdelhi.com/irj/portal> and enclosed with the tender documents.

PART A:: TECHNICAL BID comprising of the following, do not contain any cost information whatsoever and shall be submitted within the due date:

S. No.	Descriptions	Type of Documents/Format
A.1	Bid Details	
1	Bid Index for Part-A (Technical Bid)	In the prescribed format enclosed at APPENDIX I ANNEXURE – 1.01
2	Cover Letter, if any	Standard Format
3	Bid Form (Unpriced) Duly Signed	Duly Signed Bid Form as per enclosed format at APPENDIX I ANNEXURE – 1.02
4	Tender Fee	Non-refundable demand draft or online transfer of the requisite amount through IMPS/NEFT/RTGS for Rs 1,180/-, Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.03
5	EMD	Online transfer of the requisite amount through IMPS/NEFT/RTGS or FD or BG in the prescribed stamp paper & format enclosed at APPENDIX I ANNEXURE – 1.05, EMD Details Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.04

6	Power-of-Attorney/ Authorization Letter	In the standard stamp paper/letter
A.2 Technical Bid		
7	Communication Details of the Bidder	Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.06
8	Manufacturer Authorization Form (as applicable)	Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.07
9	Technical Qualifying Criteria Compliance Index & Documents	Documentary evidence in support of qualifying criteria mentioned in Section 1 Clause 2.00. Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.08, ANNEXURE – 1.09 & ANNEXURE – 1.10
10	Schedule of Deviations - Technical	Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.11
11	Technical Details/ Filled in Guaranteed Technical particulars (GTP) as per specification	Bidder shall submit duly filled GTP with all Technical documents
12	Technical Drawings as per specification	Bidder shall submit all Drawings as per the specification
13	Type Test Reports	Bidders shall submit a copy of type test reports in their technical bids in support of technical specifications. Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.12
14	Sample Submission Details (if applicable as per specification)	Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.13
15	Product Catalogue (If applicable)	Bidders shall submit a copy of the product catalogue in their technical bids in support of technical specifications
16	Manufacturer's Quality Assurance Plan	Bidders shall submit a copy of MQP in their technical bids in support of technical specifications
17	Other drawings/ documents mentioned in technical specification	Bidders shall submit a copy of documents in their technical bids in support of technical specifications
18	Testing Facilities	Bidder shall submit the details of testing facilities available at their works/factory.
A.3 Commercial Bid		
19	Company Profile, Organization Chart & Manpower Details.	Bidder shall submit the details of Organization & Manpower with qualification and experience.
20	Commercial Qualifying Criteria Compliance Index & Documents	Documentary evidence in support of qualifying criteria mentioned in Section 1 Clause 2.00. Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.14
21	Undertakings	Duly signed self-undertakings as per enclosed format at APPENDIX I ANNEXURE – 1.15
22	Schedule of Deviations - Commercial	Duly filled and signed as per enclosed format at APPENDIX I ANNEXURE – 1.16
23	Acceptance Form For Participation in Reverse Auction Event	Duly signed Acceptance Form For Participation In Reverse Auction Event as per enclosed format at APPENDIX I ANNEXURE – 1.17
24	Commercial Terms and Conditions	Acceptance of Commercial Terms and Conditions viz. Delivery Schedule/Period, Payment terms, PBG etc. Duly filled and signed as per enclosed format at APPENDIX II ANNEXURE – 2.05

25	Un price Bid Duly Signed	Item wise marked as "Quoted" & Duly Signed Un price Bid as per enclosed format at VOLUME – II - FINANCIAL BID (PRICE FORMAT)
26	Signed Tender document	Original Tender documents duly stamped & signed on each page as a token of acceptance

PART B:: FINANCIAL BID comprising of

- Price strictly in the Format enclosed at VOLUME – II - FINANCIAL BID (PRICE FORMAT) indicating Break up of basic price, taxes & duties, etc.
- The Bidder has to submit the item-wise price bifurcation in the bid. An unpriced copy must be attached with the Part A (Technical Bid).

This will be opened internally after techno-commercial evaluation and only of the qualified bidders.

REVERSE AUCTION CLAUSE:: Purchaser reserves the right to use the reverse auction as an optional tool through SAP-SRM as an integral part of the entire tendering process. All techno-commercially qualified bidders shall participate in the reverse auction. Reverse Auction will be carried out on individual item-wise rates or Package-wise.

Notwithstanding anything stated above, the Purchaser reserves the right to assess the 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. Bidder is to submit their acceptance as per the format APPENDIX I ANNEXURE – 1.17.

BIDS RECEIVED AFTER THE DUE DATE AND TIME MAY BE LIABLE FOR REJECTION

4.00 AWARD DECISION

- 4.01 Purchaser intends to award the business on the lowest bid basis, so Bidders are encouraged to submit the bid competitively. The decision to place a LOI/Purchase Order solely depends on the purchaser on the cost competitiveness across multiple lots, quality, delivery and bidder's capacity, in addition to other factors that Purchaser may deem relevant.
- 4.02 In the event of your bid being selected by the purchaser (and/or its affiliates) and you subsequent DEFAULT on your bid; you will be required to pay the purchaser (and/or its affiliates) an amount equal to the difference in your bid and the next lowest bid on the quantity declared in NIT/RFQ.
- 4.03 In case any Bidder is found unsatisfactory during the delivery process, the award may be cancelled and BYPL reserves the right to award other Bidders who are found fit.
- 4.04 Contract Price/Rate shall remain "FIRM" till the validity of the Contract.
- 4.05 Quantity Variation: The purchaser reserves the right to vary the quantity by (±) 30% of the tender quantity during the execution of the contract.
- 4.06 Quantity Splitting: The purchaser reserves the right to distribute the procurable quantity on one or more than one of the eligible tenders. If the quantity is to be split, quantity distribution shall be in the manner detailed below:
a) If the quantity is split among 2 bidders, it will be done at 70:30 on the L1 price.
b) If the quantity is split among 3 bidders, it will be done at 50:30:20 on the L1 price.
Note: If quantity needs to be distributed and order splitting is required, quantity distribution shall be maximum among three (3) bidders.

5.00 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 before 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 & Conditions. Bidders who violate the marketplace rules or engage in behaviour that disrupts the fair execution of the marketplace restrict a bidder to the length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honour prices submitted to the marketplace.
- Breach of the terms of the published in Request for Quotation/NIT.

6.00 BIDDER 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 Bidders are required to return these documents to BYPL upon request.

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

7.00 CONTACT INFORMATION

Technical clarification, if any, as regards this RFQ shall be sought in writing and sent by e-mail/post/courier to the following addresses. The same shall not be communicated through phone

Address	Name/ Designation	E-mail Address
Technical		
CES Dept. 3 rd Floor, B-Block, BSES Yamuna Power Ltd Shaktikiran Building, Karkardooma, Delhi 110032	Vijender Goyal Manager (CES)	Vijender.Goyal@reliancegroupindia.com
	Srinivas Gopu GM (CES)	Srinivas.Gopu@reliancegroupindia.com
	Amit Tomer Asstt. VP (HOD-CES)	Amit.As.Tomar@reliancegroupindia.com
Commercial		
C&M Dept. 3 rd Floor, A-Block, BSES Yamuna Power Ltd Shaktikiran Building, Karkardooma, Delhi 110032	Sumit Verma GM (C&M)	Sumit.Ra.Verma@reliancegroupindia.com
	Santosh Singh Addl. VP (Head-Procurement)	Santosh.Kum.Singh@reliancegroupindia.com
	Robin Sebastian VP (HOD-C&M)	Robin.Sebastian@reliancegroupindia.com

SECTION – II: INSTRUCTION TO BIDDERS

A. GENERAL

1.00 BSES Yamuna Power Ltd, hereinafter referred to as “The Purchaser” is 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 SUPPLY/WORK

2.01 The scope shall include Design, Manufacture, testing at works conforming to the Technical Specifications/IS along with Packing, Forwarding, Transportation and Unloading and proper stacking at Purchaser’s stores/site.

3.00 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 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 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 any way 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 the 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 COST OF BIDDING

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

B. BIDDING DOCUMENTS

5.00 BIDDING DOCUMENTS

5.01 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents.

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 may result in the rejection of the Bid.

6.00 AMENDMENT OF BIDDING DOCUMENTS

- 6.01 At any time before the deadline for submission of Bids, the Purchaser may for any reason, whether at its 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 on the website www.bsesdelhi.com and the same will be binding on them.
- 6.03 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 on the website www.bsesdelhi.com
- 6.04 Purchaser shall reserve the rights to the following:
a) Extend the due date of submission,
b) Modify the tender document in part/whole,
c) Cancel the entire tender
- 6.05 **Bidders are requested to visit the website regularly for any modification/clarification/corrigendum/addendum of the bid documents.**

C. PREPARATION OF BIDS

7.00 LANGUAGE OF BID

- 7.01 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.

8.00 DOCUMENTS COMPRISING THE BID

- 8.01 The Bid prepared and submitted by the Bidder shall comprise the following components:
- (a) All the Bids must be accompanied by the required Tender Fees and EMD as mentioned in the tender.
- (b) PART A - Technical Bid and
- (c) PART B - Financial Bid

9.00 BID FORM

- 9.01 The Bidder shall submit the Bid Form with the Bidding Documents.

10.00 EMD

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

The EMD shall be denominated in any of the following forms:

- (a) Bank Guarantee drawn in favour of BSES Yamuna Power Ltd, payable at Delhi or
(b) Fixed Deposit (lien marked in favour of BSES Yamuna Power Limited) payable at Delhi.
(c) Online transfer of requisite amount through IMPS/NEFT/RTGS to BYPL account mentioned herein in **Appendix II - BYPL BANK DETAILS WITH IFSC CODE.**

EMD shall be valid for One Hundred Twenty (120) days after the due date of submission drawn in favour of BSES Yamuna Power Ltd.

The EMD may be forfeited in the case of:

- (a) 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.

11.00 BID PRICES

- 11.01 Bidders shall quote for the entire Scope of Supply/Work with a break-up of prices for individual items. The total Bid Price shall also cover all the Bidder's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, Supply, and Transportation to the site, all in accordance with the requirement of the Bidding Documents. The Bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total Price.
- 11.02 The prices offered shall be inclusive of all costs as well as Duties, Taxes or Levies paid or payable during the execution of the supply work, a breakup of price constituents, should be there.
- 11.03 Prices quoted by the Bidder shall be **"Firm"** and not subject to any price adjustment during the performance of the Contract. **A Bid submitted with an adjustable price/Price Variation Clause will be treated as non-responsive and rejected.**

12.00 BID CURRENCIES

- 12.01 Prices shall be quoted in Indian Rupees Only.

13.00 PERIOD OF VALIDITY OF BIDS

- 13.01 Bids shall remain valid for 120 days from the due date of submission of the Bid.
- 13.02 Notwithstanding Clause 13.01 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.

14.00 ALTERNATIVE BIDS

- 14.01 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.

15.00 FORMAT AND SIGNING OF BID

- 15.01 The original Bid Form and accompanying documents, must be received by the Purchaser at the date, time and place specified pursuant to Clauses 15.0 and 16.0.
- 15.02 The original Bid shall be typed or written in indelible ink and shall be signed by the Bidder 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. The Bid submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Bid on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show clearly the title, authority and designation of persons signing the Bid on behalf of the Company. Satisfactory evidence of the authority of the person signing on behalf of the Bidder shall be furnished with the bid. A bid by a person who affixes to his signature the words 'President', 'Managing Director', 'Secretary', 'Agent' or other designations without disclosing his principal will be rejected.

The Bidder's name stated on the Proposal shall be the exact legal name of the firm.

- 16.03 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 initiated by the person or persons signing the Bid.

D. SUBMISSION OF BIDS

16.00 SEALING AND MARKING OF BIDS

- 16.01 Bid submission: 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.
- 16.02 However, documents that necessarily have to be submitted in originals like EMD or Tender Fee (in the form of BG/ DD /FD 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. The Technical Documents and the EMD shall be enclosed in a sealed envelope and the said envelope shall be superscribed with — "Technical Bid & EMD". All the envelopes should bear the Name and Address of the Bidder and mark for the Original. The envelopes should be superscribed with — "Tender No. & Due date of opening".
- 16.03 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.

17.00 DEADLINE FOR SUBMISSION OF BIDS

- 17.01 The Bid must be received by the Purchaser on or before the due date & time of submission.
- 17.02 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with Clause 6.0, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

18.00 ONE BID PER BIDDER

- 18.01 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.

19.00 LATE BIDS

- 19.01 No Bid will be received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 17.0.

20.00 MODIFICATIONS AND WITHDRAWAL OF BIDS

20.01 The Bidder is not allowed to modify or withdraw its Bid after the Bid's due date & time of submission subject to any corrigendum/addendum/modifications in the tender documents uploaded to the website.

E. EVALUATION OF BID

21.00 PROCESS TO BE CONFIDENTIAL

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

22.00 CLARIFICATION OF BIDS

22.01 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.

23.00 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

23.01 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 to verify the documents submitted in support of qualification criteria.

23.02 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.

23.03 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.

23.04 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.

24.00 EVALUATION AND COMPARISON OF BIDS

24.01 The evaluation of Bids shall be done based on the delivered cost competitiveness basis.

24.02 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 will be subjected to a responsiveness check. The Technical & qualifying Proposals and the Conditional ties of the Bidders will 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.

24.03 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
- (b) Conformance to Qualifying Criteria
- (c) Deviations from Bidding Documents

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 the Bidding Documents shall be evaluated. **The Purchaser may make its own assessment of the cost of any deviation to ensure a fair comparison of Bids.**

- 24.04 Any price adjustments that result from the above procedures shall be added for comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

F. AWARD OF CONTRACT

25.00 CONTACTING THE PURCHASER

- 25.01 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.
- 25.02 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.

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

- 26.01 Submission of bids shall not automatically construe qualification for evaluation. The Purchaser reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to the award of the 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.

27.00 AWARD OF CONTRACT

- 27.01 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 the order to other bidders in the tender, provided it is required for the timely execution of the 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.
- 27.02 The Purchaser intends to issue separate individual Purchase/Work Orders which inter-alia includes the Scope of Work as mentioned/required in the NIT viz.
- a) Purchase Order for Supply
 - b) Work Order for Installation/Erection, Testing & Commissioning
 - c) Work Order for Civil (If applicable)

28.00 THE PURCHASER'S RIGHT TO VARY QUANTITIES

- 28.01 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.

29.00 LETTER OF INTENT/ NOTIFICATION OF AWARD

29.01 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 the issue of the letter of intent /Notification of Award by Purchaser.

30.00 CONTRACT PERFORMANCE BANK GUARANTEE (CPBG)

30.01 Within 28 days of the receipt of Letter of Intent/Notification of Award/Purchase Order from the Purchaser, the successful Bidder shall furnish the Performance Bank Guarantee for an amount of 10% of the PO value (including GST) valid for a period of 30 months from the date of last receipts at site/stores plus 3 months claim period. Upon submission of the performance security, the EMD shall be released.

31.00 CORRUPT OR FRAUDULENT PRACTICES

31.01 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 this provision, the terms set forth below as follows:

(i) "Corrupt practice" means behaviour 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 contract execution; and

(ii) "Fraudulent practice" means a misrepresentation of facts to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (before 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;

(c) Will declare a firm ineligible, either indefinitely or for a stated period, 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.

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

32.00 STATUTORY GUIDELINES & REGULATIONS

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

33.00 SAFETY

33.01 Safety related requirements as mentioned in our safety Manual put on the Company's website which can be accessed at <http://www.bsedelhi.com>. All bidders shall strictly abide by the guidelines provided in the safety manual at all relevant stages during the contract period.

34.00 PRIORITY OF CONTRACT DOCUMENTS

34.01 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 Bidder. 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
- (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 the company/BYPL shall be final and binding upon the parties.

BID INDEX FOR PART-A (TECHNICAL BID)

(To be filled & submitted on Bidder Letter Head, Bidders document submission should have following main categories as outlined below and should have page numbers printed at the bottom of each page with this page as page number 1. The page number should be in "Page X of Y" format. Separator with document description shall be provided before each document)

NIT & RFX No.:

Bidder's Name:

Bidder's Bid Reference No. & Date:

S. No.	Particulars	Bid Pdf Page No.	
		From	To
A.1 Bid Details			
1.	Bid Index for Part-A (Technical Bid) as per APPENDIX I ANNEXURE - 1.01	1	
2.	Cover Letter, If any		
3.	Bid Form (Unpriced) Duly Signed as per APPENDIX I ANNEXURE - 1.02		
4.	Tender Fee Details as per APPENDIX I ANNEXURE - 1.03		
5.	EMD Details as per APPENDIX I ANNEXURE - 1.04 & 1.05		
6.	Power-of-Attorney / Authorization Letter		
A.2 Technical Bid			
7.	Communication Details of the Bidder as per APPENDIX I ANNEXURE - 1.06		
8.	Manufacturer Authorization Form (as applicable) as per APPENDIX I ANNEXURE - 1.07		
9.	Technical Qualifying Criteria Compliance Index & Documents as per APPENDIX I ANNEXURE - 1.08, 1.09, 1.10		
10.	Schedule of Technical Deviations (along with soft editable Excel copy) as per APPENDIX I ANNEXURE - 1.11		
11.	Guaranteed Technical particulars (GTP) as per specification		
12.	All Drawings as per specification		
13.	Type Test Reports (Sequence of Tests shall be strictly in accordance with relevant IS/IEC) as per APPENDIX I ANNEXURE - 1.12		
14.	Sample Submission Details (If applicable as per Specification) as per APPENDIX I ANNEXURE - 1.13		
15.	Product Catalogue (If applicable)		
16.	Manufacturer's quality assurance plan (as applicable)		
17.	Other drawings/ documents mentioned in technical specification		
18.	Testing Facilities		
A.3 Commercial Bid			
19.	Company Profile/Organogram/Organization Chart & Manpower Details		
20.	Commercial Qualifying Criteria Compliance Index & Documents as per APPENDIX I ANNEXURE - 1.14		
21.	Undertakings as per APPENDIX I ANNEXURE - 1.15		
22.	Schedule of Commercial Deviations (along with soft editable Excel copy) as per APPENDIX I ANNEXURE - 1.16		
21.	Acceptance form for participation in reverse auction event as per APPENDIX I ANNEXURE - 1.17		
24.	Acceptance of Commercial Terms and Conditions as per APPENDIX II ANNEXURE - 2.05		
25.	Un Price Bid Duly Signed (Volume - II Financial Bid (Price Format))		
26.	NIT Document complete Signed & Stamped		

BID FORM

To

Head of Department
Contracts & Material Deptt.
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 indicated in the Financial Bid or such other sums as may be determined in accordance with the terms and conditions of the contract. The amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.
3. If our Bid is accepted, we undertake to deliver the entire goods as per the delivery schedule mentioned in Section IV from the date of award of the purchase order/letter of intent.
4. If our Bid is accepted, we will furnish a performance bank guarantee for due performance of the Contract in accordance with the Terms and Conditions.
5. We agree to abide by this Bid for 120 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 the supply/services 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 thereof, 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, by the Laws and Jurisdiction of Contract.

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

Signature..... In the capacity of

.....duly authorized to sign for and on behalf of

(IN BLOCK CAPITALS)

TENDER FEE DETAILS

- a. Amount (Rs.) : **1,180/- (One Thousand One Hundred Eighty Only)**
- b. Mode of Payment : DD or online transfer through IMPS/NEFT/RTGS (select any one)
- c. DD /UTR No. (As applicable) :
- d. Dated :
- e. Bidders Bank Account No. :
- f. Name of the Bank :
- g. Address of the Bank :
- h. IFSC Code of the Bank :

EMD DETAILS

- a. EMD Amount (Rs.) :
- b. Mode of Payment : BG/FD/online transfer through IMPS/NEFT/RTGS (select any one)
- c. BG/FD/UTR No. (As applicable):
- d. Dated :
- e. BG valid up to :
- f. BG Claim period up to :
- g. Bidders Bank Account No. :
- h. Name of the Bank :
- i. Address of the Bank :
- j. IFSC Code of the Bank :

(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*] (hereinafter called the "Bidder") has submitted its bid dated [*date of submission of bid*] for the supply of [*name and/or description of the goods*] (hereafter 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*] (hereinafter called the "Bank"), are bound unto BSES Yamuna Power Ltd., with its Corporate Office at Shaktikiran Building, Karkardooma, Delhi -110032, (hereinafter 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 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 One Hundred Twenty (120) 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

COMMUNICATION DETAILS OF THE BIDDER

S. No.	Designation	Name	Mobile No.	E-mail id
1	CEO / MD			
2	Sales / Marketing Head			
3	Sales Representative / Key Account Manager (KAM)			
4	Technical Head			
5	Manufacturer Plant / Operations Head			
6	Post Order Execution In Charge			
7	Authorized contact person (Primary responsibility for the Bid)			
8	Authorized contact person (Secondary responsibility for the Bid)			

MANUFACTURER AUTHORIZATION FORM
(To be submitted on OEM's Letter Head)

Date:
Tender No.:

To

Head of Department
Contracts & Material Deptt.
BSES Yamuna Power Ltd
Shaktikiran Building, Karkardooma,
Delhi 110032

Sir,

WHEREAS M/s. *[name of OEM]*, who are official manufacturers of having factories at *[address of OEM]* do hereby authorize M/s *[name of bidder]* to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by usand to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty by the Conditions of the Contract or as mentioned elsewhere in the Tender Document, concerning the Goods offered by the above firm in reply to this Invitation for Bids.

We hereby confirm that in case, the channel partner fails to provide the necessary services as per the Tender Document referred above, M/s *[name of OEM]* shall provide standard warranty on the materials supplied against the contract. The warranty period and inclusion/exclusion of parts in the warranty shall remain the same as defined in the contract issued to our channel partner against this tender.

Yours Sincerely,
For

Authorized Signatory

QUALIFYING CRITERIA COMPLIANCE INDEX - TECHNICAL CRITERIA				
S No	Qualifying Criteria Description as per section 1 clause 2.00	Documentary Proof Description	Documentary Proof Enclosed on Bid Page No.	
			From	To
1				
2				
3				
4				
5				

LIST OF PURCHASE ORDERS EXECUTED & DELIVERY DETAILS IN SUPPORT OF QUALIFYING REQUIREMENTS

S No	Item Details				PO & Execution Details					Customer Name	End User (shall be Utility/ SEB's/ PSU's) name and details	PO copy, MDCC /Delivery completion certificates/ Invoice Copies enclosed on Bid Page no.	
	Item	Model	Voltage Rating (kV)	Current Rating (A)	PO No	PO Date	PO Qty	Executed Qty	Execution Year			From	To
Total								Σ	Σ				

Note – Only items relevant as per qualifying requirements should be included in the list.

LIST OF PERFORMANCE CERTIFICATES IN SUPPORT OF QUALIFYING REQUIREMENT														
S No	Item Details				PO No	Supplied/ Commissioning		Performance Certificate Issue Date	Performance Certificate Issued By End User (Utility/SEB/Govt Org.)	Contact Details of Issuing Person			Enclosed on Bid Page No.	
	Item	Model	Voltage Rating (kV)	Current Rating (A)		Qty.	Date			Name	Email	Mobile	From	To
Total						Σ								

Note –

- 1. Only items relevant as per qualifying requirement should be included in the list.**
- 2. Only Performance certificates issued by End User (utilities/ SEB's/PSU's only) will be accepted as per qualifying requirement.**

SCHEDULE OF DEVIATIONS - TECHNICAL

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:

Technical Deviations:-

S. No.	NIT Pdf Page No.	NIT Clause No.	NIT Clause Descriptions	Details of Clarification/deviation with justifications

Note – Please enclose detailed GTP and drawings as per specification after the technical deviation sheet

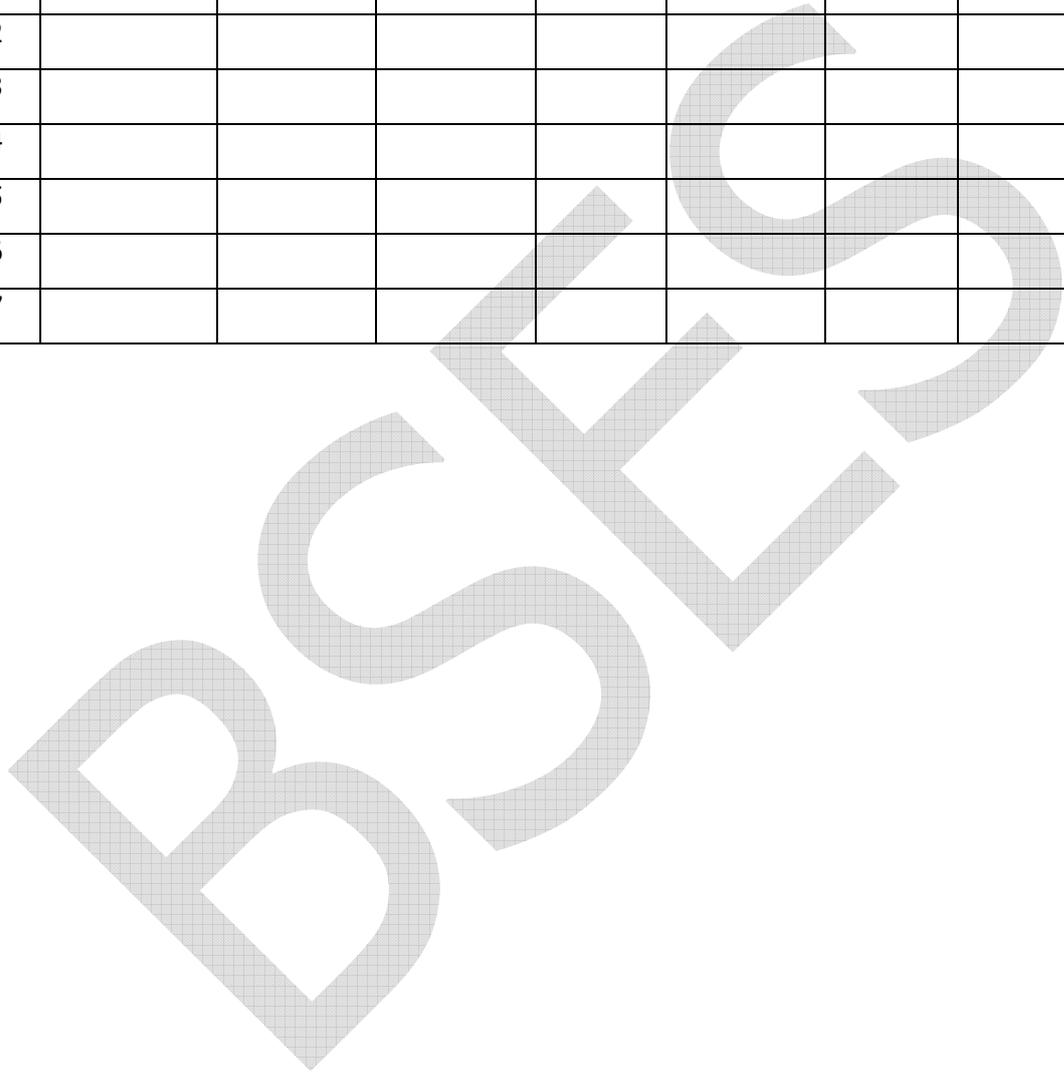
Seal of the Bidder:

Signature:

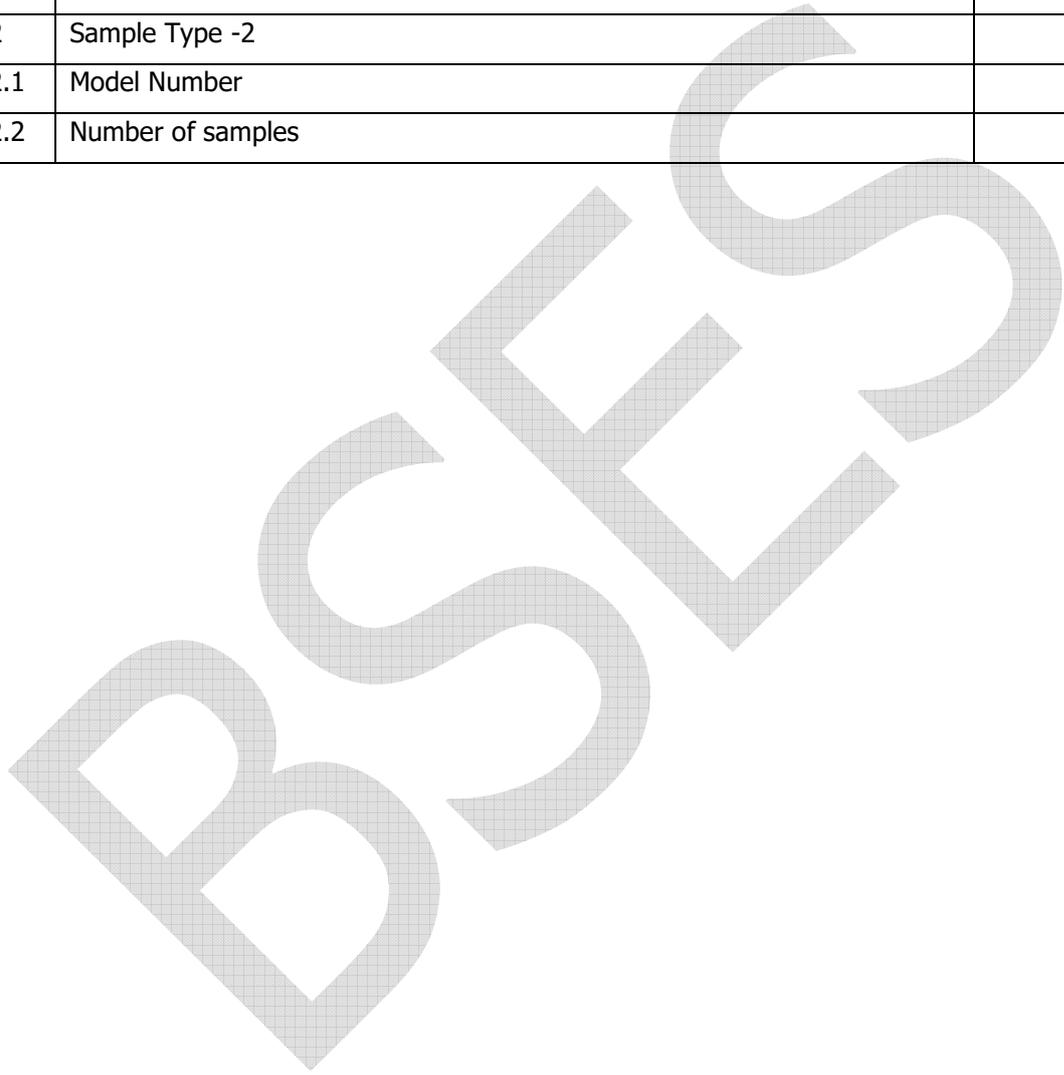
Name:

TYPE TEST REPORTS (SEQUENCE OF TESTS SHALL BE STRICTLY IN ACCORDANCE WITH RELEVANT IS/IEC)

S No	Test Description	Reference Standard	Reference Standard Clause No.	Name of Testing Lab	Test Report Reference Number	Date of Issue of Report	Report Enclosed on Bid Page No	
							From	To
1								
2								
3								
4								
5								
6								
7								



SAMPLE SUBMISSION DETAILS (IF APPLICABLE AS PER SPECIFICATION)		
S No	Description	Bidder's Response
1	Samples submitted with the bid	Yes/No
1	Sample Type -1	
1.1	Model Number	
1.2	Number of samples	
2	Sample Type -2	
2.1	Model Number	
2.2	Number of samples	



QUALIFYING CRITERIA COMPLIANCE INDEX - COMMERCIAL CRITERIA				
S No	Qualifying Criteria Description as per section 1 clause 2.00	Documentary Proof Description	Documentary Proof Enclosed on Bid Page No.	
			From	To
1				
2				
3				
4				
5				

UNDERTAKINGS
(To be submitted on Bidders Letter Head)

Date:

Tender No.:

To

Head of Department
Contracts & Material Deptt.
BSES Yamuna Power Ltd
Shaktikiran Building, Karkardooma,
Delhi 110032

Sir,

We *[name of bidder]*, , hereby undertake and confirm the following:

- *[name of bidder]* has "No Litigation" pending with the BYPL or its Group/Associates Companies as on the date of bid opening.
- *[name of bidder]* has not been blacklisted/debarred by any central/state government institution/Electricity utilities as on the date of bid opening.
- *[name of bidder]* shall comply with all the statutory compliances as per the laws/rules etc. before the start of the supply/work.
- All documents, certificates, and information submitted by us against this tender are genuine, true, and correct. Copies provided have been made from the original documents. In the event that any document, certificate, or information is found to be false, forged, or misleading, BYPL shall have the right, at its sole discretion, to take appropriate legal action, including forfeiture of EMD and disqualification from participation in future tenders of BYPL and its group companies, for an indefinite period or as decided by BYPL.

Yours Sincerely,

For

Authorized Signatory

Name : _____

Designation : _____

Seal : _____

APPENDIX I NIT NO: CMC/BY/25-26/RS/SKS/SV/41 [RFx Number: 2200000174]	Page 15 of 22	Bidders seal & Signature
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SCHEDULE OF DEVIATIONS - COMMERCIAL

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:

Commercial Deviations:-

S. No.	NIT Pdf Page No.	NIT Clause No.	NIT Clause Descriptions	Details of Clarification/deviation with justifications

By signing this document we hereby withdraw all the deviations whatsoever taken anywhere in this bid document and comply with all the terms and conditions, technical specifications, scope of work etc. as mentioned in the standard document except those mentioned above.

Seal of the Bidder:

Signature:

Name:

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed and stamped by the bidder)

BSES Yamuna Power Ltd (hereinafter referred to as **"BYPL"**) intends to use the reverse auction through the 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 bidder.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of BYPL, bid process, bid technology, bid documentation, bid details, etc.
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 glitches, 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 from submitting the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid 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 to 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 outright rejected by BYPL.
8. The bidder shall be prepared with competitive price quotes on the day of the reverse auction 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 Landed Cost basis at the BYPL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for time extension of the auction event shall be considered by BYPL.
12. The original price bids submitted by the bidders shall be proportionately reduced for each line item, based on the final all-inclusive prices determined at the conclusion of the auction event, to arrive at the final contract value.

Signature & seal of the Bidder

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CODE OF CONDUCT FOR BIDDERS

BSES expects Bidders including their personnel (employees or sub-Bidders) to support, embrace and enact the following Code of Conduct (CoC), apart from complying with all national and international regulations and laws that are applicable at any given time. BSES encourages its Bidders to go beyond compliance and embrace the principles of sustainability. BSES will support training and capacity-building programmes undertaken by Bidders, which promote awareness on sustainability and responsible business practices. BSES shall incorporate regulatory compliance and ESG performance as key criteria based on requirements as stated in the Code during evaluation of the Bidders.

A. Promote Environmental Sustainability

All Bidders support a precautionary approach to environmental issues and undertake initiatives to promote better environmental responsibility. To this end, Bidders will

1. Reduce resource consumption and conserve natural resources:
 - 1.1. Conduct all operations, sourcing, manufacture, distribution of products and the supply of services with the aim of protecting and preserving the environment.
 - 1.2. Use natural resources rationally and work towards reducing resource consumption (water, energy, fuel, electricity, other materials etc.) and GHG emissions.
 - 1.3. Identify environmental risks and set up appropriate prevention measures.
2. Prevent pollution and reduce waste generation
 - 2.1. Maintain all required official permits, licenses and registrations.
 - 2.2. Prevent contamination, limit waste generation, and avoid or minimise adverse impact on the environment and biodiversity by facilitating reusing and recycling material.
 - 2.3. Clearly monitor the precautions to be taken during operations & maintenance in case of emission of heat, vibrations, radioactive rays, noise or similar.
 - 2.4. Use only those chemicals and aerosols with very low or zero ODP (Ozone Depletion Potential), which are allowed as per the regulatory provisions.
 - 2.5. Ensure that all the chemical and hazardous substances are accompanied by the manufacturer MSDS (Material Safety Data Sheet) during transport, storage, use and disposal, and that instructions mandated be strictly followed. No chemical and hazardous substance shall be received without a MSDS document. All the applicable regulatory guidelines shall be adhered strictly for the procurement, transport, storage, use and disposal of such harmful and hazardous chemicals.
 - 2.6. Provide written instructions about handling and/or disposal of equipment and product during the life cycle if special handling is required.

B. Commitment to Human Rights, Labour and the Society

Bidders shall support, respect and protect human and labour rights and make sure their organisation/entity is not complicit in any kind of abuses and/or violations. In this regard, the Bidders must:

1. Fair working conditions
 - 1.1. Provide and maintain healthy and safe working conditions and welfare facilities for the employees in its establishment.
 - 1.2. Ensure that that wages and benefits of their employees and sub Bidders are fair and comply with applicable national and local laws as well as with contractual agreements.
 - 1.3. Provide all workers, both permanent and non-permanent, with employment documents that are freely agreed to and which respect their legal and contractual rights.
2. Health & Safety

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Ensure that the activities of Bidders do not harm the health and safety of their own employees, Bidders and sub Bidders, local communities/population, and finally the users of its products and services, which is in accordance with the BSES's Mission Zero Harm in Health and Safety.

3. Child Labour

- 3.1. No person below 18 years shall be employed or permitted to work in any occupation or process.
- 3.2. Zero tolerance for any kind of child labour in their establishments and supply chain.

4. Forced Labour

- 4.1. Under no circumstance shall Bidders use forced labour¹, whether in form of compulsory or trafficked labour, indentured labour, bonded labour or other forms, through direct or indirect use of force and/or intimidation.
- 4.2. Any kind of slavery, mental and physical coercion, human trafficking and debt bondage in the supply chain shall not be tolerated.

5. Wages and Working hours

- 5.1. Ensure that all applicable regulations related to wages, overtime compensation and other legally mandated benefits of their employees and sub Bidders are fair and comply with applicable national and local laws as well as with contractual agreements. Minimum wages are applicable as per applicable in central Act and State rules.
- 5.2. Ensure that maximum working hours laid down and are adhered to.

6. Freedom of Association and Collective Bargaining

- 6.1. Recognise and respect the rights of workers to freedom of association and collective bargaining. Workers are not intimidated or harassed in the exercise of their right to join or refrain from joining any organisation.
- 6.2. Ensure that all employees can communicate with the management regarding working conditions.

7. Non-Discrimination and Equal opportunity

- 7.1. Commit, within the scope of prevailing laws and statutes, to oppose all forms of discrimination².
- 7.2. Maintain a work environment free from any form of discrimination and harassment.
- 7.3. Refrain from discrimination in hiring and employment practices on grounds of skin colour, age, caste, gender, race, ethnicity, nationality, socio-economic background, physical or mental disability, religion, sexual orientation, marital status, pregnancy, dependants, political or religious opinion, ideology, union membership and personal or social circumstances. Special attention must be paid to the rights of workers most vulnerable to discrimination.

8. Zero Tolerance towards Harassment

- 8.1. Treat all employees with respect and dignity and furthermore ensure that their own Bidders treat their employees in the same manner.
- 8.2. No tolerance towards unacceptable treatment of employees, such as physical punishment or torture, sexual harassment³, or abuse, mental or physical coercion or verbal abuse, or the threat of any such treatment.
- 8.3. No worker should be subjected to any physical, sexual, psychological, or verbal harassment, abuse or other form of intimidation.

C. Ethical Integrity and Legality

Bidders shall demonstrate the highest standard of integrity, ethics, and business conduct.

1. Compliance with Applicable laws and regulations:
 - 1.1. All activities must be carried out in compliance with the legislation that is applicable in the countries in which the Bidders operate.
 - 1.2. All other applicable international laws and regulations must be complied with, including those relating to international trade (such as those relating to sanctions, export controls and reporting obligations), data protection and antitrust/ competition laws.
 - 1.3. Avoid any conduct that could tarnish or damage the reputation of BSES.
2. Anti-Corruption & Anti Bribery
 - 2.1. All forms of bribery and corruption are prohibited
 - 2.2. Adequate measures and procedures should be in place to prevent bribery in all commercial dealings.
 - 2.3. Maintain a policy of 'Zero Tolerance' of any practice that may be deemed to be corruption, either active or passive.
 - 2.4. No tolerance for unacceptable conduct, which includes, but not limited to, non-compliance with anti- corruption laws and, directly or indirectly offering, promising, hiring or authorising payments in cash or in kind to any BSES employee, public official or any other person or entity, with intention of a) obtaining or retaining business b) Influencing business decisions; and/or c) securing an unfair advantage.
3. Conflict of Interest
 - 3.1. All and any conflict of interest in any business dealings with BSES, of which the Bidders are aware, should be declared to BSES so that appropriate action can be taken.
 - 3.2. Avoid a situation where there is a real or potential conflict of interest with BSES employees, or with their family or closely associated persons, that could affect the independence or objectivity of their professional actions or decisions. If avoidance is not possible, the Bidders should inform BSES of the situation so that appropriate action can be taken.
4. Insider Trading and Other Economic Crimes
 - 4.1. Ensure that all business and commercial dealings are transparently performed and accurately recorded in the books and records.
 - 4.2. Comply with applicable anti-money laundering laws, conduct business only with ethically responsible partners and receive funds only from legitimate sources.
 - 4.3. Avoid actual or attempted participation in economic offences, such as (but not limited to) money laundering, criminal breach of trust, counterfeiting, criminal misappropriation of properties, forgery, cheating, extortion, embezzlement and fraud.
 - 4.4. Refrain from insider trading. No confidential information regarding BSES is used to either engage, facilitate or support insider trading in BSES's shares.
 - 4.5. Take necessary measures to detect and prevent any illicit or suspicious forms of payment and inform and/or report through established channels if it has any suspicion or concern in this regard.
5. Gifts & Hospitality
 - 5.1. Any business entertaining/hospitality with BSES should be modest in value, appropriate, and compliant with the law and company policies, entirely for the purpose of maintaining good business relations and not intended to influence in any way BSES's decisions on future business relationship.
 - 5.2. Only gifts/honorarium of nominal value accepted or offered on festivals, at conferences, etc. will be permitted. Such gifts should comply with local laws and customs (including cultural and religious festivals) and should not be prohibited under applicable law and should not

- include cash or cash equivalents, gold or other precious metals, gems or stones.
- 5.3. Neither receive nor offer or make, directly or indirectly, any illegal payments, remunerations, gifts, donations or comparable benefits that are intended, or perceived, to obtain uncompetitive favours for the conduct of its business with BSES.
- 5.4. Neither directly or indirectly offer any gift, entertainment, trip, discount, service, or other benefit to any official of BSES or his/her close relations which would or be capable of compromising, influencing, liable to corrupt the integrity and objectivity of that person.
6. Competition, Confidentiality and Data Privacy
- 6.1. All market survey/other entities information must be obtained and used legitimately and in compliance with all applicable laws and regulations.
- 6.2. No attempt should be made to divulge to BSES any information about any other entity in violation of any law or agreement.
- 6.3. Likewise, BSES's confidential information must not be shared with any Bidder unless expressly permitted by BSES in writing by authorised signatory under the respective purchase order or agreement, as the case may be.
7. Transparency and Ethics
- 7.1 Fair competition
Avoid any action that may constitute an illegal practice of unfair competition and ensure compliance with applicable competition laws.
- 7.2 Corporate image and reputation
Bidders must NOT:
- Make false statements or provide any misleading information regarding its products/services.
 - Give the impression of representing or being the spokesperson of BSES while getting associated with any religious/political party or for activities in their personal capacity.
8. Protection of Intellectual Property and No Misuse or Improper use of BSES's assets/ property
- 8.1. Respect and protect all confidential information and intellectual property of BSES.
- 8.2. Do not misuse and share assets of BSES and employ them only for the purpose of conducting the business for which they are duly authorised by BSES. These include tangible assets such as equipment and machinery, systems, facilities, materials, and resources and intangible assets such as intellectual property rights, processes, know how & technology, proprietary information, etc.
- 8.3. Safeguard, secure, and protect BSES's assets and information technology from theft, destruction, misappropriation, wastage, and abuse.
- 8.4. Promptly report loss, theft or destruction of any intellectual property and data of the Company or that of any Bidder.
9. Financial Records and Accuracy in Books
- 9.1. Have accounting practices in place to ensure accuracy of its financial books and records.
- 9.2. Ensure accurate accounting and proper reporting of information pertaining to the business and financial results in accordance with applicable Accounting Standards [Generally Accepted Accounting Principles (GAAP)].
- 9.3. Ensure compliance to applicable laws and regulations with respect to accounting and taxation and timely discharge of tax liability.
10. Sanction Laws
- 10.1 Do not engage in any dealings or transactions with any person, or in any country or territory that are subject to global / regional sanctions as mentioned herein below in clause 10.2. BSES is vigilant of its Bidders who may be on a sanctions list or have a related company in

- a country subject to global/regional sanctions. In case of any concerns, the Bidder should immediately report to BSES.
- 10.2 Do not be subject to or the target of any economic or financial sanctions or trade embargoes imposed, administered or enforced by the U.S. Government including without limitation by the World Bank or by the United Nations Security Council, the European Union, the United Kingdom including by Her Majesty's Treasury or the Department of Business, Innovation and Skills, a relevant regulatory authority or the Minister of Foreign Affairs of Canada under the Special Economic Measures Act or the United Nations Act or legislation or regulations with similar purpose or effect or any other relevant sanctions authority of any other country (collectively, 'Sanctions Laws') nor is the Company or any of its subsidiaries / affiliates located, organised or resident in a country or territory that is the subject of the target of Sanctions Laws
- 10.3 Do not take any action which places or is likely to place BSES in violation of Sanctions Laws and/ or breaches affecting the reputation and/ or business interests of BSES
11. Responsible Sourcing
Ensure that goods and materials are not sourced in a suspicious or illegal way and implement measures for sustainable procurement practices³ to ensure compliance with laws and regulations.
12. Quality of Product and Services
Products and services should meet the specifications, quality, safety and environmental criteria specified in the relevant contract documents and required by applicable laws
13. Corporate Citizenship
Bidders shall be committed to be good corporate citizens, not only in compliance with all relevant laws and regulations, but also by assisting and supporting initiatives to improve the quality of life of local communities/regions in which it operates. The activities may be, but not limited to, community health and family welfare, vocational training, education and literacy and employment.

¹ 'Forced Labour' or 'Involuntary Labour' refers to all work or service that is extracted under the menace of penalty. It also includes terms such as, bonded labour and modern slavery. It also includes any labour for which the worker receives less than the government stipulated minimum wage.

² 'Discrimination' refers to unjust or prejudicial treatment of people, especially on the grounds of, but not limited to, caste, creed, gender, race, ethnicity, age, colour, religion, disability, socio-economic status or sexual orientation.

³ Sustainability shall mean to devise a practice & procedure proactively to sustain resources of organisation and society at present levels with reasonable degradation. Sustainable procurement or sourcing is the process of making purchasing decisions that meet an organisation's needs for goods and services in a way that benefits not only the organisation but society, while minimising its impact on the environment. Organisation integrates the sustainability into business model as a resultant of ESG principles. This is achieved by ensuring that the working conditions of its Bidders' employees are decent, the products or services purchased are sustainable, where possible, and that socio- economic issues, such as inequality and poverty, are addressed.

**GENERAL CONDITIONS OF CONTRACT
(GCC)**

GENERAL CONDITIONS OF CONTRACT (GCC)

The General Condition of Contract shall form a part of specifications, contract document.

1. General Instructions & Applicability

- 1.1. All Bids shall be prepared and submitted strictly in accordance with these instructions. The Bidder shall be solely responsible for all expenses incurred in the preparation and submission of the Bid. Under no circumstances shall the Purchaser be held liable for such costs, regardless of the outcome of the bidding process.
- 1.2. The Purchaser reserves the right to seek clarifications or additional information from any Bidder at any stage of the evaluation process. The Purchaser may, at its discretion, reject any Bid that is incomplete, non-responsive, or fails to meet the requirements stated in the Bid Documents. The decision of the Purchaser regarding the responsiveness or rejection of any Bid shall be final and binding, without any financial or other obligation on its part.
- 1.3. The Bidder shall be deemed to have carefully examined, read, and fully understood all instructions, terms, conditions, and technical requirements specified in the Tender Documents prior to submission of its Bid.

2. Definitions and Interpretations

- 2.1. COMPANY / OWNER / PURCHASER / BUYER / CUSTOMER shall mean BSES Yamuna Power Limited (BYPL), a company incorporated under the Companies Act, 2013, having its registered office at Shakti Kiran Building, Karkardooma, Delhi – 110032. The expression shall include its authorized representatives, agents, successors, and permitted assigns.
- 2.2. BIDDER / BIDDER / SUPPLIER / VENDOR / CONTRACTOR / AGENCY / MANUFACTURER shall mean the entity submitting a quotation or proposal in response to this bid enquiry issued by the Purchaser. The term Bidder refers to the successful Bidder(s) whose bid has been accepted by the Purchaser and on whom the Letter of Acceptance or Letter of Award is issued, and shall include the Bidder's heirs, legal representatives, successors, and permitted assigns, wherever applicable.
- 2.3. OFFER SHEET shall mean the Bidder's formal and firm offer submitted to BYPL in accordance with the specifications set forth in the Bid Documents.
- 2.4. CONTRACT PRICE/RATE shall mean the price specified in the Letter of Intent, Letter of Award, Rate Contract, or Purchase Order, as applicable.
- 2.5. SITE shall mean the location(s) where the Works, Goods, or Services are to be delivered, installed, commissioned, or executed, as specified elsewhere in the Tender Documents.
- 2.6. STORE shall mean the designated area or location where goods and materials are stored, or as otherwise defined in the Contract.
- 2.7. ENGINEER IN CHARGE shall mean the Company's authorized or nominated representative responsible for supervising and administering the execution of the Works under the Contract.
- 2.8. APPLICABLE LAW shall mean the Constitution of India and all laws, rules, regulations, directives, notifications, codes, orders, or instructions having the force of law as issued by any competent legislative or governmental authority, including but not limited to laws relating to taxes, duties, assessments, expropriation, and compulsory acquisition, as amended from time to time. Any resulting implications shall constitute a Change in Law or Change in Permits, as applicable.

- 2.9. OTHER CLEARANCES shall mean all consents, approvals, permits, or authorizations required to be obtained from governmental or local authorities necessary for commencing or completing the work.
- 2.10. DEFECT LIABILITY PERIOD shall mean the period during which the Bidder shall remain responsible for the repair or replacement of any defective part of the Works executed under the Contract, at no additional cost to the Purchaser.
- 2.11. TENDER SPECIFICATION shall mean the technical and commercial requirements, Indian Standard specifications, and description of works detailed in the Tender Documents, including all documents and references expressly or implicitly forming part of the Tender.
- 2.12. SPECIFICATIONS shall collectively mean all stipulations contained in the RFQ, Commercial Terms and Conditions, Instructions to Bidders, Technical Specifications, and any Amendments, Revisions, Deletions, or Additions issued by the Purchaser from time to time.
- 2.13. CODES AND STANDARDS shall mean all applicable codes and standards referred to or implied in the Specifications.
- 2.14. CHANGE OF WORK shall mean any addition, deletion, suspension, or modification to the scope, quality, functionality, or requirements of the Work as defined in the Contract, resulting in a corresponding change to the Technical Specifications and/or completion schedule.
- 2.15. GOOD INDUSTRY PRACTICE shall mean the level of skill, care, diligence, prudence, and foresight reasonably expected from a competent and experienced service provider engaged in similar activities under similar circumstances, in compliance with prevailing laws, regulations, and industry standards.
- 2.16. CONTRACT shall mean the agreement formed by the Letter of Award or Acceptance, Purchase Order or Work Order, Special Conditions of Contract (SCC), General Conditions of Contract (GCC), the Tender and its Annexures, and all addenda, corrigenda, and clarifications issued by the Purchaser.
- 2.17. EFFECTIVE DATE OF CONTRACT shall mean the date of issuance or award of the Contract, which shall also be deemed the Contract Commencement Date.
- 2.18. CONTRACT PERIOD shall mean the total duration agreed upon between the Bidder and Purchaser for execution of the Contract, inclusive of any extended contract period for reason beyond the control of the Bidder and/or Purchaser due to force majeure.
- 2.19. CONTRACT COMMENCEMENT DATE shall mean the date of issuance or award of the Contract, which shall be deemed the Effective Date of Contract.
- 2.20. CONTRACT COMPLETION DATE shall mean the date marking the expiry of the Guarantee or Defect Liability Period, which shall be deemed the Contract Completion Date.
- 2.21. ACCEPTANCE shall mean and deemed to include one or more of the following as will be stipulated in the specification:
- 2.21.1. Written approval by the Purchaser's Inspector authorizing dispatch of material from the Bidder's works.
- 2.21.2. Acceptance of material at Purchaser site stores after its receipt and due inspection/testing and release of material acceptance note.
- 2.21.3. In case of supply and installation contracts, acceptance shall mean issuance of the Equipment/Material Takeover Receipt after successful installation, commissioning, and final acceptance.

3. Contract Documents Priority & Formation

- 3.1. The documents forming the Contract shall be read as mutually explanatory. In case of any ambiguity or discrepancy, the same shall be clarified and resolved by the Purchaser, whose interpretation shall be final. Unless otherwise provided, the order of precedence of Contract documents shall be as follows:
- 3.1.1. Contract Agreement/Purchase Order/Work Order
 - 3.1.2. Letter of Acceptance / Letter of Intent / Letter of Award
 - 3.1.3. Agreed Minutes of the Tender Negotiation Meetings
 - 3.1.4. Agreed Minutes of the Tender Technical Meetings
 - 3.1.5. Priced Bill of Quantities
 - 3.1.6. Technical Specifications, Drawings, and Scope of Work
 - 3.1.7. Tender Document including all Appendices, Addenda, and Corrigenda (latest revisions to take precedence)
 - 3.1.8. Applicable Codes and Standards
- 3.2. In the event of any inconsistency, the interpretation most consistent with achieving the Project's technical, legal, and statutory objectives shall prevail. No oral communication or instruction shall supersede the written Contract documents.

4. Governing Laws & Dispute Resolution

- 4.1. The Contract shall be governed by and interpreted in accordance with the laws of India.
- 4.2. Any dispute, controversy, or claim arising out of or relating to this Contract, or the breach, termination, or invalidity thereof, shall first be sought to be resolved amicably through mutual consultation between the Parties.
- 4.3. In the event that an amicable resolution is not achieved within a reasonable period, the dispute shall be referred to arbitration in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended by the Arbitration and Conciliation (Amendment) Act, 2023. The Arbitral Tribunal shall consist of three (3) arbitrators — one to be appointed by each Party, and the third, who shall act as the presiding arbitrator, to be jointly appointed by the two arbitrators so nominated.
- 4.4. The seat and venue of arbitration shall be New Delhi, India, and the language of proceedings shall be English. The arbitral award rendered by the Tribunal shall be final and binding upon both Parties.

5. Change in Law

- 5.1. Change in Law shall mean the occurrence of any of the following events after the Effective Date of the Contract:
- 5.1.1. The enactment or coming into force of any new Applicable Law.
 - 5.1.2. Any amendment, modification, alteration, or repeal of an existing Applicable Law, or the issuance of any new or revised directive, regulation, or order thereunder.
 - 5.1.3. Any change or variation in the rate, nature, or applicability of taxes, duties, levies, or charges payable in connection with this Contract.
- 5.2. In the event of any Change in Law, the impacted Party shall promptly notify the other Party in writing with relevant details.
- 5.3. If such Change in Law results in any increase or decrease in the cost, expense, or liability of the Bidder in performing its obligations under the Contract, an equitable adjustment shall be made to the Contract Price and/or the Schedule of Completion as mutually agreed between the Parties.

5.4. The Parties agree to negotiate in good faith to reasonably compensate or adjust obligations affected by such Change in Law to ensure the fair performance of the Contract.

6. Language, Measurement & Precedence

6.1. The Contract issued by the Company to the Bidder, along with all related correspondence, documents, instructions, and communications, shall be prepared and maintained in the English language. In case of any translation of Contract documents, the English text shall prevail and govern in the event of any conflict or ambiguity.

6.2. All dimensions, units, quantities, and measurements shall be expressed and interpreted strictly in accordance with the Metric System (International System of Units - SI). Any deviation or alternative units must be clearly specified and mutually agreed upon in writing.

7. Scope of Supply - General

7.1. 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.

7.2. Bidder shall have to quote for the Bill of quantities as listed in Volume - II of this RFQ.

7.3. Quantity variation and additional requirements if any shall be communicated to successful bidder during project execution.

7.4. All relevant drawings, data and instruction manuals.

8. Specifications, Codes & Standards

8.1. The Bidder shall follow all codes and standards referred in the Contract Document. Codes and standards not specifically mentioned in the Contract Document may be followed by the Bidder with the prior written approval of BYPL, provided materials, supplies and equipment according to the standard are equal to or better than the corresponding standards specified in the Contract.

8.2. Product manufacturer or brand names cited in the Contract Documents serve solely to define the required type and quality of products. The Bidder shall not substitute or alter the specified brands or product qualities without the express prior written consent of BYPL. All products and equipment must be used or installed in full compliance with the original manufacturer's guidelines unless otherwise instructed by BYPL.

8.3. In all cases, the Bidder must comply with relevant codes, standards, and requirements prescribed by any applicable government agencies.

8.4. In the absence of specific BSES standards, the Bidder shall follow the relevant Indian Standards (IS) or International Electrotechnical Commission (IEC) standards as applicable.

9. Representations and Warranties

9.1. The Bidder represents and warrants that it possesses full legal capacity, valid licenses, permits, and approvals required to perform all obligations under this Contract.

9.2. The Bidder warrants that all Goods supplied under this Contract:

9.2.1. Are brand new and free from any defects in design, materials, and workmanship

9.2.2. Fully conform to the Contract specifications and requirements

9.2.3. Are suitable and fit for the intended purpose as specified in the Contract documents

9.3. The Bidder further warrants that all Services performed shall be executed with the highest degree of skill, care, and diligence consistent with Good Industry Practice and prevailing professional standards.

10. Ethics, Integrity & Code of Conduct

10.1. The Bidder shall fully comply with all anti-bribery, anti-corruption, conflict of interest, gifts and gratuities, and integrity policies issued or communicated by the Purchaser. For Contracts exceeding specified thresholds, the Bidder shall be required to execute an Integrity Pact as per the Purchaser's guidelines.

10.2. Any breach of these ethics and integrity obligations by the Bidder may lead to disciplinary actions including, but not limited to, termination of the Contract, forfeiture of performance security deposits, recovery of losses incurred by the Purchaser, debarment from future procurement opportunities, and reporting to relevant regulatory or enforcement authorities.

11. Sustainability, ESG & Legal Compliance

11.1. The Bidder shall implement an Environmental, Social, and Governance (ESG) program appropriate to the scope of work, which shall include but is not limited to:

- 11.1.1. Compliance with applicable Extended Producer Responsibility (EPR), electronic waste, hazardous waste, plastic waste, and battery waste management regulations;
- 11.1.2. Adherence to RoHS/REACH standards where applicable;
- 11.1.3. Design and supply of energy-efficient products meeting prescribed star ratings or efficiency classes;
- 11.1.4. Take-back and responsible disposal or recycling of packaging and end-of-life equipment where mandated;
- 11.1.5. Occupational health and safety management systems aligned with IS/ISO 45001;
- 11.1.6. Social safeguards including prohibition of child labour, forced labour, assurance of fair wages, and provision of safe and dignified workplaces.
- 11.1.7. Adoption of environmentally responsible practices such as waste minimization, recycling, and strict prohibition of hazardous materials usage, in accordance with relevant laws and regulations.

11.2. The Bidder shall support the Purchaser's Scope-3 greenhouse gas emissions tracking efforts by submitting quarterly reports detailing the embodied carbon content of supplied goods (where available) and associated logistics emissions. The Bidder shall provide reasonable assistance in this regard at no additional cost.

11.3. The Bidder shall prioritize the use of recycled or returnable packaging materials and minimize single-use plastics except where necessary for product protection. All wooden packaging shall be sourced from legally compliant Bidders. Pallets, drums, and similar packaging materials shall be collected and returned for reuse or recycling where feasible.

11.4. The Bidder shall maintain accurate records, documentation, and evidence of compliance with all ESG requirements and shall provide such information to BYPL or relevant authorities as reasonably requested, in the format and frequency specified.

12. Data & Cybersecurity

- 12.1. For any scope involving software, firmware, or networking components, the Bidder shall:
- 12.1.1. Provide comprehensive cyber hardening guidelines;
 - 12.1.2. Maintain a vulnerability disclosure window of thirty-six (36) months following delivery;
 - 12.1.3. Deliver timely security patches and firmware updates as they become available;
 - 12.1.4. Supply a software bill of materials (SBOM) listing all software components included;
 - 12.1.5. Ensure no hard-coded credentials exist in delivered software or devices.

12.1.6. Any connection to the Purchaser's network must be authorized in writing prior to implementation.

12.2. The Bidder shall handle any personal data processed in relation to this Contract in full compliance with applicable data protection laws. Appropriate technical and organizational security measures must be implemented, and the Bidder must promptly notify the Purchaser of any data breaches or security incidents impacting Purchaser data.

13. Local Content and Eligibility

13.1. The Bidder shall comply fully with the Public Procurement (Preference to Make in India) Order and related norms. This includes submitting accurate declarations of local content in goods and services, and consenting to verification and audits by the Purchaser or authorized agencies. Any false or misleading declarations shall entitle the Purchaser to disqualify the Bidder, terminate the Contract, and impose debarment as per applicable regulations.

13.2. Bidders originating from countries sharing land borders with India must adhere to the registration and eligibility criteria specified by the Government of India. Failure to comply with these requirements will render the bid ineligible for consideration and may lead to Contract termination if discovered post-award.

14. Manufacturing Approvals & Clearances

14.1. Transmittal approval documents - including Guaranteed Technical Parameters (GTP), drawings, Quality Assurance Plans (QAP), and other relevant documents - shall be submitted within 15 days to the designated BYPL official for review and approval. BYPL shall provide approval or comments within seven (7) calendar days of the initial submission. Should resubmission be required, the Bidder shall complete it within five (5) calendar days. Subsequent approvals or comments from BYPL on such resubmissions will be issued within five (5) calendar days. Repeated resubmissions are discouraged and may impact timelines.

14.2. Manufacturing activities shall commence only after the Bidder receives formal transmittal approval and manufacturing clearance from BYPL.

14.3. All documents submitted for transmittal approval must reflect pre-award discussions and confirmations between BYPL and the Bidder to ensure accuracy and compliance.

14.4. Post Order Transmittal Approval shall be completed within 04 weeks from the date of Rate Contract/Purchase Order. Delays in obtaining transmittal approval shall not be accepted as valid grounds for extension of delivery timelines or waiver of liquidated damages.

15. Errors, Omissions & Discrepancies

15.1. The Bidder shall be solely responsible for all discrepancies, errors, and omissions found in the drawings, documents, or any other information submitted by it, regardless of whether such submissions have been approved, reviewed, or accepted by BYPL. Notwithstanding the foregoing, any design or drawing errors directly resulting from inaccurate or incomplete data or written instructions furnished by BYPL shall not be attributed to the Bidder.

16. Quality Assurance, Inspection, Testing and Test Certificates

16.1. The Bidder shall procure all equipment solely from authentic sources approved by the Company and as per Company specifications.

16.2. The Bidder shall prepare a detailed Quality Assurance Plan (QAP) and test procedures identifying all manufacturing stages, associated quality checks, raw material inspections, and

Customer hold points. This document shall include inspection methods, acceptance criteria, and standards. The Bidder must obtain Purchaser approval prior to manufacturing commencement. The Purchaser retains the right to review Bidder's in-house inspection reports and quality checks at stages other than Customer hold points and may issue remarks requiring additional testing, rectification, or rejection, which the Bidder shall comply with.

- 16.3. Witness and Hold points represent critical inspections or tests during manufacturing where the Bidder must notify the Purchaser in advance to enable witnessing. Final inspection is a mandatory hold point. Work shall proceed beyond any hold point only after explicit clearance by the Purchaser or receipt of a witness waiver letter.
- 16.4. The Purchaser's waiver of any quality assurance activity at any stage shall not exempt the Bidder from fulfilling all Contract requirements, codes, and referenced standards, nor preclude the Purchaser from subsequently rejecting non-conforming materials or work.
- 16.5. The Bidder shall submit all test certificates and joint inspection reports related to equipment's/materials, wherever applicable.
- 16.6. Manufacture items shall not be dispatched without prior receipt of a Material Dispatch Clearance Certificate (MDCC) or explicit instructions from the Purchaser.
- 16.7. All in-house testing and inspections shall be conducted at no additional cost. Such inspections shall be overseen by the Purchaser or its authorized third-party inspection agency. Costs of futile or abortive inspection visits shall be deducted from Bidder invoices.
- 16.8. The Purchaser reserves the right to send any supplied material to recognized laboratories for testing at any time, with testing costs borne by the Bidder. If materials fail to meet the specified technical requirements, the Bidder shall bear all associated charges and penalties. To prevent dispute, the Bidder should appoint a representative to witness material sealing at the storage site before dispatch for testing.

17. Inspection & Test Charges

- 17.1. The Goods shall be subjected to inspection by the Purchaser and/or a third-party inspection agency appointed by the Purchaser. Such inspections shall include stage-wise and final inspections as per the mutually agreed Quality Assurance/Quality Control (QA/QC) procedures. Additionally, inspections may be conducted at the Purchaser's site or storage facilities. The Bidder shall repair or replace any damaged or rejected Goods to the satisfaction of the Purchaser at no additional cost.
- 17.2. Inspection charges are included in the total contract value, whereas third-party inspection fees shall be borne by the Purchaser. However, any costs arising from futile or abortive visits by the Purchaser's inspectors to the Bidder's premises shall be deducted from the Bidder's invoices.
- 17.3. No shipment of Goods, whether in whole or in part, shall be made under this Purchase Order until the Bidder has received a written Release for Shipment Notice from the Purchaser or its authorized representative.
- 17.4. Requests for stage-wise or pre-dispatch inspections must be submitted to the Purchaser at least seven (7) days in advance, utilizing the official request format provided by BYPL.

18. Documentation

- 18.1. The Bidder shall procure all materials and equipment exclusively from BYPL-approved sources, strictly adhering to BYPL specifications and Transmittal Approvals. The Bidder shall submit

copies of all relevant Material and Type Test Certificates, Operation and Maintenance (O&M) Manuals, as well as Approved and As-built drawings for the supplied equipment. Compliance with BYPL's specifications and Field Quality Procedures is mandatory and must be ensured by the Bidder throughout the project.

19. Packing, Handling, and Storage

- 19.1. Packing: The Bidder shall pack, or cause to be packed, all Commodities in suitable crates, boxes, drums, containers, cartons, or other appropriate packaging to ensure safe shipment by road or rail to BYPL's Delhi/New Delhi stores or site. Packaging shall provide adequate protection to prevent damage during transit. Wherever feasible, biodegradable packaging materials should be used in compliance with prescribed environmental standards.
- 19.2. Packing List: Each package shall contain a detailed packing list itemizing the contents with exact weight, external dimensions (length, width, and height), Item SAP Code, Purchase Order number, and date. One copy of the packing list must be enclosed inside each package delivered.
- 19.3. Prior to commencement of supply, the Bidder shall provide the Material Safety Data Sheet (MSDS) and detailed handling and storage instructions or manuals, where applicable. A copy of these documents shall be submitted and maintained at the storage or site location along with the first lot of materials delivered.

20. Delivery Terms & Address

- 20.1. The Goods shall be delivered to BYPL's designated Store(s) and/or Site(s). All shipments shall be made on a Free on Road (FOR) destination basis, inclusive of any applicable local taxes and duties.
- 20.2. The Bidder shall be responsible for unloading of the Goods at the respective BYPL Store(s) or Site(s).
- 20.3. Where applicable, the Bidder shall ensure issuance of all required transit documents, including E Way Bills, necessary for lawful transportation of the Goods. The logistics partner or transporter shall not be held liable for any loss, penalties, or confiscation arising due to improper documentation or mis-declaration.

21. Transportation

- 21.1. The Bidder shall be responsible for arranging the transportation of Goods from the Bidder's or Sub-Bidder's works or warehouses to the Buyer's designated Store(s) or Site(s).
- 21.2. All charges related to transportation from the Bidder's works to the Buyer's Store(s) or Site(s) are deemed included in the total order value and shall not be billed separately.

22. Transit Insurance

- 22.1. The Bidder shall be responsible for arranging Transit Insurance for all materials and Goods.
- 22.2. In the event of damage or loss of cargo during transit, the Bidder shall coordinate directly with the relevant insurance company to procure insurance coverage, lodge claims, and facilitate settlement. Regardless of the insurance outcome, the Bidder must replace and deliver the damaged or lost Goods to the Purchaser within thirty (30) days of the incident, at the Bidder's sole expense, including all associated costs for replacement and delivery.

23. Acceptance & Rejection of Goods

GENERAL CONDITIONS OF CONTRACT (GCC) NIT NO: CMC/BY/25-26/RS/SKS/SV/41 [RFx Number: 2200000174]	Page 9 of 27	Bidders seal & Signature
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- 23.1. Goods shall be accepted only upon receipt of the Material Dispatch Clearance Certificate (MDCC).
- 23.2. The Purchaser shall not accept materials if LR/ RR / Bilty and the Original Tax Invoice (Transporter Copy) are not handed over at store/site. The Bidder shall draw all dispatch documents in favour of Purchaser as Consigned to and billed to.
- 23.3. The materials shall be supplied during working hours from 10AM to 5PM. No delivery shall be effected after this time unless prior intimation is given to the Purchaser.
- 23.4. The Bidder shall take signature of the authorized person at store/site with Purchaser's seal duly receipting the materials and the quantities in the absence of which payment shall not be made by the Purchaser.
- 23.5. The Bidder shall ensure exact quantities are supplied as per MDCC and if the quantities are short-supplied, as per verification at the Bidder's store/site, the same shall be adjusted and net payment shall be made accordingly.
- 23.6. The Purchaser retains the exclusive right to reject any goods that do not comply strictly with the terms and conditions of this Purchase Order.

24. Price Validity

- 24.1. For Bidders awarded the contract, the agreed prices shall remain fixed and valid throughout the entire duration of the contract until its completion.

25. Prices/Rates/Taxes

- 25.1. Price basis for supply of materials & services:
 - 25.1.1. The contract price/rates finalized for this contract shall be firm for the entire duration of the contract and are not subject to any variation and escalation for any reason whatsoever.
 - 25.1.2. The supply prices are inclusive of packing, forwarding, and loading at manufacturer's premises, payment of GST, Freight, and any other local charges. Octroi is presently not applicable in Delhi and however if applicable shall be reimbursed at actuals.
 - 25.1.3. The supply prices shall also include unloading at BYPL Delhi/New Delhi stores/sites.
 - 25.1.4. Transit insurance shall be arranged by the Bidder at no additional cost to the Purchaser.
 - 25.1.5. GST is included in the total contract price. GST payments will be processed only upon submission of the Bidder's valid GST registration and a self-declaration on the Bidder's letterhead confirming GST compliance and deposit as per applicable laws. The Bidder must provide their GST registration number.
 - 25.1.6. Income Tax (IT) at applicable rates will be deducted from Bidder invoices as Tax Deduction at Source (TDS).

26. Taxes & Duties

- 26.1. All taxes, duties, turnover tax, labour cess, etc. (except GST) levied by State or Central Governments or local bodies shall be borne by the Bidder. Any new taxes and duties levied by the government during the term of this Agreement shall be borne by BYPL. Income tax and TDS will be deducted at source from the Bidder's invoices as applicable. The Bidder must furnish their GST registration number.

- 26.2. GST on actuals will be paid upon submission of GST registration and a self-declaration on the Bidder's letterhead confirming that the tax has been or will be deposited as per applicable tax laws.
- 26.3. As per Notification No. 39/2021 # Central Tax dated 21st December 2021, effective from 01/01/2022, a registered person (i.e., Recipient/Purchaser) can claim input tax credit only for invoices reflected in GSTR2A or GSTR2B (which requires 100% matching of invoices). Bidders must deposit GST by filing GSTR-1 and GSTR-3B.
- 26.4. If the Bidder/Bidder fails to comply and the Recipient/Purchaser cannot avail input tax credit due to non-filing or non-compliance of GSTR-1 and GSTR-3B for the month/quarter of supply, the Recipient/Purchaser reserves the right to withhold 100% of the GST amount from subsequent payments until the default is rectified.
- 26.5. To release withheld payments under the GST Act, the Bidder/Bidder must submit proof of payment via GST Portal screenshots reflecting the Recipient/Purchaser's name, along with the relevant GSTR-1 and GSTR-3B filings for the applicable period. Payments will not be released until such proof is provided.
- 26.6. Furthermore, the Recipient/Purchaser reserves the right to recover any financial loss incurred (including tax, interest, penalties, and loss of input credit) due to the Bidder/Bidder's non-compliance or non-filing of GSTR-1 and GSTR-3B.
- 26.7. For goods delivered on FOR site basis, the Bidder/Bidder is responsible for complying with all rules regarding the issuance of E-way bills. Any violation may result in penalties and seizure of goods during transit. All penalties and pre-deposits related to such violations shall be borne by the Bidder/Bidder. The Bidder/Bidder is also responsible for ensuring timely release of seized goods. Any supply delay caused by seizure shall attract liquidated damages as per contract provisions.
- 26.8. For goods not covered under GST, applicable Excise Duty (ED), VAT, or CST shall be payable extra at prevailing rates.
- 26.9. BYPL Tax Details:
26.9.1. GSTIN: 07AABCC8569N1Z0
26.9.2. CST No.: 07740254593
26.9.3. TIN No.: 07740254593
26.9.4. PAN No.: AABCC8569N
- 26.10. The Bidder must submit a detailed statement of invoices and amounts to the concerned officer within seven (7) days after the end of each month corresponding to the supply period. Failure to submit shall be taken as no requirement for reconciliation.

27. Variation in Taxes, Duties & Levies

- 27.1. The total order value shall be adjusted for any variations in statutory levies imposed by competent authorities through fresh notifications issued within the stipulated delivery period. In the event of any reduction in taxes, duties, or levies, such benefits shall be passed on to the Buyer.
- 27.2. No other taxes, duties, or levies beyond those specified above shall be payable by the Buyer, except for new levies, taxes, or duties imposed by competent authorities via fresh notifications after the issuance of the purchase order but within the stipulated delivery period.
- 27.3. Any changes in taxes, duties, or levies shall only apply to the portion of the purchase order remaining unexecuted on the date of such notification. Changes occurring after the scheduled delivery date shall not affect the terms or value of the purchase order.

27.4. The purchase order value shall remain unaffected by any variations in exchange rates.

28. Taxes & Duties on Raw Materials and Bought-Out Components

28.1. Taxes and duties applicable to raw materials and bought-out components shall be included within the total order value and shall not be subject to any escalation or variation for any reason throughout the duration of the contract.

29. Building and Other Construction Workers (BOCW) Act (Applicable for All Civil and Construction Works)

29.1. The Building and Other Construction Workers (BOCW) Act applies to any establishment employing or having employed ten or more building workers at any time during the preceding twelve months in any building or construction work. The Bidder performing such construction work must register with the Registering Officer under Section 7 of the BOCW Act, along with applicable state government rules, and submit the Registration Certificate issued by the Registering Officer of the concerned State Government's Labour Department.

29.2. Under this Act, the Bidder shall pay a cess at the rate of 1% on the cost of construction work, which shall be deducted from each interim bill. The cost of materials, when billed separately as a distinct schedule item, shall be excluded from the cess calculation. The Bidder is required to comply with all applicable provisions of the BOCW Act.

30. Tax Indemnity Clause

30.1. The Bidder (including its affiliates in India or overseas, agents, third-party Bidders, or any other persons appointed by such affiliates for this Agreement) shall bear sole responsibility for compliance with and payment of all taxes—direct or indirect—including but not limited to income tax, transfer pricing, value added tax, SGST, CGST, IGST, UTGST, GST Compensation Cess, customs duty, excise duty, Research and Development Cess, cesses, interest, penalties, or any other tax/duty/amount/charge/liability arising under laws or regulations applicable in India or overseas, or from demands or recoveries initiated by any revenue authority.

30.2. If any tax liability (including but not limited to income tax, transfer pricing, value added tax, SGST, CGST, IGST, UTGST, GST Compensation Cess, customs duty, excise duty, Research and Development Cess, etc.), cesses, interest, penalties, or other charges become payable by the Purchaser due to the Bidder's or its affiliates' failure to comply with relevant laws or regulations, the Bidder undertakes to indemnify the Purchaser for such amounts.

30.3. Furthermore, the Bidder agrees to indemnify and keep indemnified the Purchaser against all actions, proceedings, claims, losses, damages, costs, and expenses directly or indirectly arising from any failure by the Bidder or its affiliates to comply with applicable legal obligations.

30.4. The parties agree to the following procedure in the event the Purchaser receives any demand or notice relating to non-compliance by the Bidder or its affiliates with tax laws:

30.4.1. The Purchaser shall notify the Bidder in writing within five (5) common working days of receipt of such communication, or as soon as reasonably possible if the response time is shorter.

30.4.2. Upon receipt of notification, the Bidder shall either accept the demand and reimburse the Purchaser within five (5) working days of payment or propose disputing the demand.

30.4.3. If the Bidder opts to dispute the demand and the Purchaser agrees, the Purchaser will contest the demand following due legal process, refraining from paying the tax demand during litigation. The Bidder shall reimburse all litigation costs incurred, including counsel fees and filing charges. Should any coercive recovery measures be

initiated, the Purchaser may pay the sum and recover it from the Bidder within five (5) working days.

30.4.4. If the demand is finally determined by a tribunal or authority and payment was made by the Purchaser, the Bidder shall reimburse the amount within ten (10) days of payment. Conversely, if no amount is payable and a refund arises, the Purchaser shall pass the refund to the Bidder within ten (10) days of receipt.

31. Invoicing Instructions

- 31.1. Invoices shall be prepared in triplicate — (1) Original for the recipient, (2) Duplicate for the transporter, and (3) Triplicate for the Bidder — and delivered to: BSES YAMUNA POWER LIMITED, SHAKTI KIRAN BUILDING, KARKARDOOMA, DELHI - 110032. Material Dispatch Clearance Certificates (MDCC) will be issued separately for Capex and Opex, and Bidders must submit invoices accordingly.
- 31.2. The Bidder shall obtain GST registration in the state from which the supply is made. Bidders must possess a valid GST registration number and issue GST tax invoices and supporting documents compliant with the SGST Act, CGST Act, IGST Act, UTGST Act, GST Compensation Cess Act and applicable rules. Failure to submit GST-compliant invoices shall render the tax amounts (SGST, CGST, IGST, UTGST, GST Compensation Cess) subject to withholding during payment.
- 31.3. Invoices must be issued in the name of BSES YAMUNA POWER LIMITED, with the store/site address as specified in the MDCC. Invoices should comply with all GST Invoice, Debit Note, and Credit Note requirements, including Bidder details, GSTIN, HSN codes, item details, tax rates, etc., as outlined in government regulations and the GST INV-01 invoice template.
- 31.4. The Bidder must charge appropriate CGST, SGST, UGST, IGST, and GST Compensation Cess as applicable.
- 31.5. Timely Issuance of Invoices/Debit/Credit Notes:
- 31.5.1. Bidders shall provide invoices and debit/credit notes promptly to allow the Purchaser to claim input tax credit within prescribed deadlines per GST laws. Adjustments (credit notes, purchase returns, debit notes) must be processed within legally mandated timeframes.
- 31.5.2. In case of advance payments, the Bidder agrees to raise a tax invoice. Upon receipt of advance, the Purchaser will issue a payment voucher as per applicable GST rules. Four copies of invoices are required, including the Electronic Reference Number if mandated by law. Persons in charge of conveyance must carry required documents and devices.
- 31.6. Transit Documents and E Way Bills: Where applicable, the Bidder is responsible for issuing transit documents/E Way Bills for goods movement. Logistic partners or transporters shall not be liable for losses or confiscation due to improper documentation or misdeclaration. The Supplier must comply with all E-way bill regulations. Violations may attract penalties and seizure of goods. The Supplier shall bear all penalties and pre-deposits and is responsible for obtaining release of goods from authorities like CGST/SGST. Delays due to seizure shall attract liquidated damages as per contract.
- 31.7. All Suppliers/Service Providers must include the following minimum details in invoices submitted:
- 31.7.1. Invoice/Credit Note number and date
- 31.7.2. Bidder/service provider address and GSTN
- 31.7.3. Customer name and address as per GST registration and GST registration number
- 31.7.4. 'Shipped to' and 'Billed to' addresses
- 31.7.5. Place of supply

- 31.7.6. Description of goods/services with units of measurement
- 31.7.7. HSN/SAC codes
- 31.7.8. Taxable value (gross and discount detailed separately if applicable)
- 31.7.9. Tax rate and amount for CGST, SGST, and IGST separately
- 31.7.10. Bidder's signature (for e-invoices, a physical signature is not required)
- 31.7.11. Indication of reverse charge applicability

32. Bill Submission Procedure

- 32.1. All monitoring, measurement, billing & payment processes shall be on IT enabled platform of BYPL as per Company's guidelines issued from time to time and bidders to ensure adherence. The company may modify the procedure for the submission of bills. The Bidder shall be obliged to submit its bill as per the procedure stipulated by the company from time to time.
- 32.2. All bills must be uploaded to BYPL portal (BTS - Bill Tracking System) for certification by the Engineer In-Charge or Package Engineer.
- 32.3. Further the Bidder shall also submit original bill (hard copy) along with supporting documents at Vendor Support Cell of BYPL. The bills shall be made in favour of BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, New Delhi - 110032.
- 32.4. Each bill shall be complete in all respects, including compliance with ESI, HR, Quality, HSE, Stores, and Finance requirements. The site follows an established procedure for bill processing. Incomplete bills or invoices will not be processed for payment.

33. Terms of Payment and Billing

33.1. For Supply Of Equipment/Materials

100% payment shall be made within 45 days from the date of receipt & acceptance of material at site on against submission of following documents against dispatch of each consignment at our Vendor Support Cell (VSC):

- a) Signed copy of accepted Rate Contract / Purchase Order (for first payment)
- b) LR / RR / BL as applicable
- c) Challan as applicable
- d) One (01) copies of Bidder's detailed Recipient Invoice showing Commodity description, quantity, unit price, total price and basis of delivery, and being 100% of the value of the consignment claimed.
- e) One (01) copies of Bidder'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.
- f) One (01) copies Packing List / Detailed Packing List
- g) Approved Test certificates / Quality certificates, if applicable
- h) Certificate of Origin, if applicable
- i) Material Dispatch Clearance Certificate (MDCC)
- j) Warranty / Guarantee Certificate, if applicable
- k) Checklist for bill submission.

- 33.2. Purchaser has the right to recover tax loss, interest and penalty suffered due to any non-compliance of tax laws by the Bidder. In the event, Purchaser is not able to avail any tax credit due to any shortcoming on the part of the Bidder (which otherwise should have been available to Purchaser in the normal course), then the Bidder at his own cost and effort will get the shortcoming rectified. If for any reason the same is not possible, then the Bidder will make 'good' the loss suffered by Purchaser due to the tax credit it lost. In such event, any amount paid to the Bidders 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.

- 33.3. 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 Bidder.
- 33.4. 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 Bidder's account.
- 33.5. Where the supply of Goods is liable to GST under reverse charge mechanism, then the Bidder 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".

34. Performance Guarantee

- 34.1. To be submitted within twenty-eight (28) days from the date of issuance of the Letter of Intent/Award/PO. Bidder shall submit PBG equivalent to 10% of the PO value (including GST) valid for a period of 30 months from the date of last receipts plus 3 months claim period.
- 34.2. All Bank Guarantees shall be issued in favour of BSES Yamuna Power Ltd. and must conform to the format prescribed by BYPL.
- 34.3. Performance Guarantee Forfeiture: Each Performance Bond established under Clause 34.1 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 Bidder has failed to comply with any term or condition outlined in the Contract.
- 34.4. Each Performance BG established under will be automatically and unconditionally forfeited without recourse if BYPL in its sole discretion determines that Bidder has failed to comply with any term or condition outlined in the contract.
- 34.5. Performance Guarantee Release: All Performance Bonds shall be released without any interest within seven (7) days following the expiry of the validity period specified in Clause 34.1, except in cases outlined under Clause 34.4.

35. Defects Liability Period/ Warranty / Guarantee

- 35.1. 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 66 months from the date of delivery at store(s)/site(s).
- 35.2. If during the Defects Liability Period any goods are found defective, the Bidder shall promptly replace or rectify them at its own cost, including dismantling and reinstallation, as directed by the Purchaser. If removed from site, the goods must be returned at the Bidder's cost within the agreed schedule from receipt of intimation.
- 35.3. The Bidder shall dispatch service personnel within 48 hours in emergencies and ensure availability of manpower and spares throughout the warranty period.
- 35.4. However, if the situation, in BYPL's sole discretion warrants an emergency restoration, it reserves the right to take immediate action for identifying the fault and restoring the system with available resources & materials or with help from any other third-party agency under intimation to the Bidder. All costs of replacement, substitution, shipping, labour and other related expenses including taxes and levies incurred in connection with the restoration of fault plus 15% of expenses incurred as administrative overheads shall be for the account of Bidder. BYPL will charge the Bidder for the costs incurred for fault restoration or may set off such

costs against any amounts payable by BYPL to the Bidder or deduct from the PBG submitted by the Bidder. Bidder shall pay BYPL the amount within 30 days.

- 35.5. Fault root cause analysis shall be jointly conducted by BYPL's CES, O&M, OEM teams and the Bidder. If faults arise from reasons other than faulty material, design, or workmanship, the Bidder shall be exempt from further liability or cost.

36. Support beyond the Guarantee Period

- 36.1. The Bidder shall ensure the availability of spare parts and necessary technical support for a minimum period of ten (10) years following the completion of the equipment guarantee period under the contract. The Bidder must notify BYPL at least twelve (12) months in advance of the End of Life Support for the supplied product or technology.

37. Return, Replacement or Substitution

- 37.1. BYPL shall promptly notify the Bidder upon identification of any defective commodity. At its sole discretion, BYPL may return such defective commodities to the Bidder for replacement at no cost to BYPL or reject the commodities and procure the same or similar items from a third party. In the event of such third-party procurement, BYPL shall provide the Bidder with proof of the replacement purchase cost.
- 37.2. All costs associated with replacement, substitution, shipping, labor, and other related expenses incurred in connection with the return and replacement or third-party procurement of the commodity shall be borne by the Bidder. BYPL reserves the right to deduct such costs from any payments due to the Bidder.
- 37.3. Should the cost of the substitute commodity exceed the price quoted in the Bidder's bid, the Bidder shall reimburse BYPL for the difference.
- 37.4. At BYPL's sole discretion, materials or goods rejected and not collected by the Bidder within forty-five (45) days from the date of rejection notification may be disposed of by BYPL.

38. Effective Date of Commencement of Contract

- 38.1. The Contract shall be deemed to commence on the date of issuance of the Letter of Intent, Letter of Acceptance, or Purchase Order, whichever is earlier, and this date shall be considered as the effective commencement date for all contractual obligations.

39. Time - The Essence of Contract

- 39.1. The date specified for completion of the "Project" in the Letter of Acceptance or Purchase Order issued to the Bidder shall be deemed to be of the essence of the Contract. The Bidder is required to complete the Project on or before the stipulated schedule and completion date.

40. Delivery Completion Timelines

- 40.1. The contractual delivery for the Goods or Services shall adhere strictly to the defined schedule.

41. Extension of Time and Time Overrun

- 41.1. Extension of time may be granted at the Company's discretion if delays are not the Bidder's fault, subject to the Bidder submitting detailed justification within ten (10) days of the delay's occurrence. Such extension does not warrant any increase in contract price and does not prejudice the Company's right to recover liquidated damages.

42. Liquidated Damages

- 42.1. If supply of items/equipments is delayed beyond the supply schedule as stipulated in the purchase order then the Bidder 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.
- 42.2. 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.
- 42.3. 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 Bidder or from the Performance Bond or file a claim against the Bidder.
- 42.4. 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.

43. Recoveries

- 43.1. Whenever any sum is recoverable from the Bidder under this contract, the Purchaser shall be entitled to recover such amount by appropriating, in whole or in part, any sums due or that may become due to the Bidder under this contract. If such sums are insufficient to cover the full amount recoverable, the Bidder shall pay the outstanding balance to the Purchaser upon demand.

44. The Micro, Small and Medium Enterprises (MSME)

- 44.1. If the Bidder's establishment falls under the scope of the Micro, Small and Medium Enterprises Development Act, 2006 and its amendments, the Bidder shall declare this status within the bid. Failure to do so will be deemed as confirmation that the Bidder is a non-MSME unit. The Bidder must also submit a copy of the Udyog Aadhaar (UA) and Udyam Registration Number, along with the PAN number.

45. Transfer and Subcontracting

- 45.1. The Bidder shall not subcontract, transfer, assign, or otherwise part with the Contract or any part thereof, either directly or indirectly, without the prior written approval of the Purchaser.
- 45.2. Notwithstanding any subcontracting, the Bidder shall remain entirely responsible for the execution, completion, and satisfactory performance of the Work, in full compliance with the Purchase Order, specifications, approved drawings, and data sheets. The Bidder shall also be fully accountable for any acts, omissions, defaults, or negligence of any subBidder.

46. Intellectual Property Rights and Royalties

- 46.1. The Bidder shall indemnify the Purchaser and the Purchaser's Representative against all claims and proceedings arising from infringement or alleged infringement of any patent rights, registered designs, copyright, design, trademark, trade name, know-how, or other intellectual property rights (collectively referred to as "Intellectual Property Rights") relating to the Works, Bidder's equipment, machines, methods, plant, materials, or anything required for execution of the Works. In case of infringement, the Bidder shall, at its own cost, either rectify, modify, or replace the infringing item so that infringement ceases, or procure necessary rights or licenses from the affected third party.
- 46.2. The Bidder shall be promptly notified of any claim made against the Purchaser. The Bidder 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 Bidder unless the Bidder 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 Bidder 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 Bidder under the Contract or any other contract and the balance portion of claim shall be treated as debt due from the Bidder.

- 46.3. Intellectual Property Rights in any plant, materials, drawings, designs, plans, documents, specifications, data, know-how, charts, or information provided by the Purchaser remain the sole property of the Purchaser. The Bidder has only a limited right to use these for execution of the Works.
- 46.4. 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 Bidder and/ or its third-party licensors ("Bidder's IPR") shall continue to vest with the Bidder and/ or its third-party licensors and the Bidder 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 Bidder's IPR for the use, operation, maintenance and repair of the Works.
- 46.5. If any patent, trademark, trade name, registered design or software is developed by the Bidder or its SubBidder 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 Bidder (or its SubBidders) for any purpose other than with the prior written consent of the Purchaser.
- 46.6. If the Bidder uses proprietary software (whether customized or off the shelf) for the purpose of storing or utilizing records in relation to the Works, the Bidder 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.
- 46.7. If any software is used by the Bidder for the execution of the Works over which the Bidder or a third party holds pre-existing title or other rights, the Bidder 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).

47. Vendor Code of Conduct

- 47.1. Bidder acknowledges having reviewed the BYPL policy on legal and ethical code required to be followed by Bidders encapsulated in the "Vendor/Bidder Code of Conduct" displayed on the official website of BYPL (www.bsedelhi.com) also, which shall be treated as a part of the agreement/contract/PO/WO.
- 47.2. Bidder undertakes that he shall adhere to the Bidder Code of Conduct and also agrees that any violation of the Bidder Code of Conduct shall be treated as breach of the agreement/contract/PO/WO.
- 47.3. In event of any such breach, irrespective of whether it causes any loss/damage, company (BYPL) shall have the right to recover loss/damage including liquidated damages from Bidder.
- 47.4. The Bidder hereby indemnifies and agrees to keep indemnified the company (BYPL) against any claim/litigation/liability/penalty including litigation cost arising out of any violation of Bidder Code of Conduct by the Bidder or its officers, agents & representatives etc.

48. Limitation of Liability

- 48.1. Except in cases of willful misconduct, fraud, or gross negligence, neither Party shall be liable to the other for loss of use of any works, loss of profit, loss of contracts, or any other indirect or consequential damages arising out of or in connection with the Contract. The total liability of the Bidder to the Purchaser under this Contract shall not exceed the Contract Value.
- 48.2. Notwithstanding the above, this clause shall not limit the liability of the Bidder in the following cases:
- 48.2.1. Fraud, willful misconduct, or unlawful acts
 - 48.2.2. Acts or omissions that violate the fundamental rules of diligence that a conscientious Bidder would observe under similar circumstances
 - 48.2.3. Intellectual property infringement
 - 48.2.4. Breach of confidentiality or data security obligations
 - 48.2.5. Tax and statutory dues liabilities
 - 48.2.6. Recovery of liquidated damages
 - 48.2.7. Third-party death or personal injury

49. Liability of Bidders

- 49.1. Subject to the due discharge of its obligations under the Contract and except in case of willful misconduct, fraud, or gross negligence on the part of the Bidder or on the part of any person acting on behalf of the Bidder, with respect to any loss or damage caused by the Bidder to the Purchaser's property or the Site, the Bidder 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 Bidder under the Contract including reimbursements, if any; or
 - ii. The insurance claim proceeds that the Bidder may be entitled to receive from any insurance purchased by the Bidder to cover such a liability, whichever is higher.
- 49.2. This limitation of liability shall not affect the Bidder's liability, if any, for damage to third-party property or injury or death of a person due to negligence of the Bidder or any Person or firm acting on behalf of the Bidder in executing the order.
- 49.3. Notwithstanding anything contained in the Contract, the Bidder shall not be liable for any willful misconduct, fraud, or gross negligence on the part of the Purchaser or any of its affiliates, any Bidder, or any party, other than Bidder and/or, its directors, officers, agents or representatives or its affiliates, or SubBidder, or the Bidder or any third party engaged by it.
- 49.4. Notwithstanding anything contained in the Contract, including but not limited to approval by the Purchaser of any drawings, documents, Bidder list, supply of information or data or the participation of the Purchaser in any meeting and/or discussion or otherwise, shall not absolve the Bidder from any of its liabilities or responsibilities arising in relation to or under the Contract.

50. Indemnification

- 50.1. The Bidder shall indemnify and hold harmless the Company from and against any and all liabilities, claims, damages, losses, or expenses arising out of or resulting from:
- 50.1.1. any breach non-observance or non-performance by Bidder or its employees or agents of any of the provisions of this Work Order.
 - 50.1.2. any act or omission of Bidder or its employees or agents.

50.1.3. any negligence or breach of duty on the part of Bidder, its employees or agents including any wrongful use by it or them of any property or goods belonging to or by COMPANY.

50.1.4. Any damages or loss related to free-issued materials, for which the Bidder shall submit an Indemnity Bond.

50.2. The Bidder shall at all times indemnify the Company against all liabilities to third parties, including employees or agents of the Company or the Bidder, for bodily injury, property damage, or any other loss arising out of or in connection with the execution or completion of the Works. This includes all costs, charges, and expenses incurred by the Company due to claims from such persons.

51. Events of Default

51.1. Each of the following events or occurrences shall constitute an event of default under the Contract:

51.1.1. The Bidder fails or refuses to pay any amounts due under the Contract;

51.1.2. The Bidder 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 valid extension thereof;

51.1.3. The Bidder 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 Bidder's creditors file any petition relating to bankruptcy of Bidder;

51.1.4. The Bidder fails to complete the works in accordance with the approved schedule of works.

51.1.5. The Bidder fails to comply with any reasonable instructions or directions issued by the Company in connection with the execution of the works.

51.1.6. The Bidder 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 Bidder of notice of such failure from BYPL specifying the failure.

52. Consequences of Default

52.1. If any Event of Default occurs and continues, BYPL may, by written notice, terminate the Contract forthwith.

52.2. Upon occurrence of an Event of Default, BYPL may, without prejudice to any other rights or remedies available under law or the Contract, exercise one or more of the following remedies;

52.2.1. Invoke and present the Performance Bond for payment;

52.2.2. Procure the same or equivalent Commodities from any third-party source; and/or

52.2.3. Recover from the Bidder any losses, damages, or additional expenses incurred as a result of the Bidder's default.

53. Force Majeure

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

53.1.1. 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 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.

53.1.2. 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.

53.1.3. Such event is not the direct or indirect result of the failure of such Party to perform any of its obligations under this Contract.

53.1.4. Such Party has given the other Party prompt notice describing such events, the effect thereof and the actions being taken to comply with the above clause.

53.2. Specific Events of Force Majeure

53.2.1. 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:

53.2.1.1. Natural elements or other acts of God, such as storms, floods, earthquakes, lightning, cyclones, landslides, or other natural disasters.

53.2.1.2. Explosions or fires.

53.2.1.3. Epidemics, pandemics, or plagues.

53.2.1.4. Declared war by the Government of India.

53.2.1.5. Dangers of navigation or perils of the sea.

53.2.1.6. Cyber security incidents impacting grid operations.

53.2.1.7. Pandemic-related lockdowns.

53.2.1.8. Climate change events beyond traditional natural disasters.

53.2.1.9. Embargoes.

53.2.1.10. Supply chain or industrial disturbances beyond reasonable control.

53.2.2. Note: Force Majeure shall not apply to financial inability, labor shortages, power failures, strikes, accidents, or subBidder defaults.

53.3. Notice of Events of Force Majeure

53.3.1. If a force majeure event prevents a party from performing any obligations under the Contract in part or in full that party shall:

53.3.1.1. 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

53.3.1.2. 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.

53.3.1.3. Use all reasonable efforts to resume full performance of the obligation as soon as practicable

53.3.1.4. Keep the other party informed of all such efforts to resume full performance of the obligation on a regular basis.

53.3.1.5. Provide prompt notice of the resumption of full performance or obligation to the other party.

53.4. Mitigation of Events of Force Majeure

53.4.1. Each Party shall:

53.4.1.1. 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;

53.4.1.2. 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

53.4.1.3. 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.

53.5. Burden of Proof

53.5.1. 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.

53.6. Termination for Certain Events of Force Majeure

53.6.1. 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.

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

53.6.2.1. Bidder fails to complete the execution of works within the approved schedule of works, terms and conditions.

53.6.2.2. In case the Bidder commits any Act of Insolvency, or is adjudged insolvent

53.6.2.3. Has abandoned the contract

53.6.2.4. Has failed to commence work or has suspended the progress of works

53.6.2.5. Has failed to proceed with the works with due diligence and failed to make such due progress

53.7. Limitation of Force Majeure event

53.7.1. The Bidder 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.

53.8. Extension of Contract Period due to Force Majeure event

53.8.1. 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.

53.9. Effect of Events of Force Majeure

53.9.1. 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".

54. Suspension or Extension

54.1. The Purchaser reserves the right to suspend or reinstate execution of the whole or any part of the Works without affecting the validity of the Contract provisions. Any orders for suspension or reinstatement shall be provided to the Bidder in writing. The completion time for the Works will be extended by a period equivalent to the duration of the suspension.

54.2. For any aggregate suspension period less than six (6) months, the Bidder shall not be entitled to claim reimbursement. If the suspension of the Works extends beyond six (6) months, the

Purchaser will reimburse the Bidder only for necessary and demonstrable direct costs incurred, subject to satisfactory substantiation. Overheads, incidentals, and profit shall not be considered. The Purchaser's decision regarding such claims will be final and binding. The Purchaser shall bear no liability for suspension or delay arising from any default on the part of the Bidder or its sub-Bidders; the Purchaser's decision in this respect shall also be final and binding.

55. Severability

55.1. If any provision of this Agreement is found to be invalid, illegal, or unenforceable by a court of competent jurisdiction, such invalidity or unenforceability shall not affect the remaining provisions of the Agreement, which shall continue to be valid and enforceable to the fullest extent permitted by law.

56. Waiver of Rights

56.1. No failure or delay by either Party in enforcing any provision of this Agreement shall be deemed a waiver of that provision or of any subsequent breach. Any waiver granted must be expressly made in writing and shall apply only to the specific instance and shall not constitute a waiver of any other rights or breaches occurring thereafter.

57. Patent Rights and Royalty

57.1. In the event that the Bidder, during the course of performing its obligations under this GCC, acquires, invents, or develops any proprietary knowledge, information, process, or invention which qualifies, or may qualify, as a trademark, copyright, patent, trade secret, geographical indication, or any other intellectual property right, the Bidder shall promptly disclose such creation to BYPL. All title, interest, and rights to such intellectual property shall vest exclusively in BYPL, and the Bidder shall execute all documents necessary to ensure BYPL's sole ownership without delay.

57.2. The Bidder warrants that, in performing its obligations, no intellectual property rights of any third party shall be infringed, whether by violation of statute, passing off, or otherwise. The Bidder shall bear sole responsibility for any infringement claims, and shall fully indemnify and hold BYPL harmless from and against any and all losses, damages, liabilities, costs, or expenses (including reasonable legal fees) incurred as a result of any such infringement. Any compensation, damages, or expenses paid by BYPL to third parties in connection with such infringement shall be recoverable in full from the Bidder.

58. Confidentiality/Secrecy

58.1. The Bidder shall not, without the Company's prior written consent, disseminate, publish, or otherwise utilize in any form of advertising, publicity, sales release, or media any photograph, reproduction, or description of the Works under this Contract, nor disclose the site details, dimensions, quantities, or other related information concerning the Works.

58.2. The Bidder, along with its employees and representatives, shall maintain strict confidentiality regarding all information encountered in the execution of the Contract, as detailed below.

58.2.1. Documents: All maps, plans, drawings, specifications, schemes, and other documents or information related to the Contract/Project, including any material supplied to the Bidder by BYPL for contract execution, shall be treated as confidential and remain the property of BYPL. Such documents shall be used solely for purposes of the Contract and shall not be disclosed or used for any other purpose. Disclosure to third parties is permitted solely where such disclosure is necessary for the execution of the Work, and only upon the third party's execution of a confidentiality agreement acceptable to BYPL, explicitly committing to uphold confidentiality obligations equivalent to those set forth herein.

- 58.2.2. Geographical Data: Maps, layouts, site photographs, and regional imagery depicting installations of national or BYPL significance shall not be published, disclosed, or exported without BYPL's prior written approval. Any necessary disclosure to third parties shall be subject to confidentiality agreements satisfactory to BYPL, executed prior to disclosure.
- 58.2.3. Violation: In the event of any breach of these confidentiality provisions, the Bidder shall indemnify and hold the Company harmless from any loss, cost, damage, or claim (including claims asserted by third parties) arising as a result of such breach. Any actual or suspected data breach or cyber incident must be promptly notified to BYPL and investigated at the Bidder's expense.

58.3. Furthermore, the Bidder shall be liable for compensation or damages as determined by the competent authority of BYPL.

59. Progress Reports of Work Execution and Information

- 59.1. Throughout the manufacturing and erection stages of critical equipment under this Contract, the Bidder shall, at its own expense, submit periodic progress reports as reasonably required by the Purchaser. These reports shall include relevant supplementary materials such as charts, network diagrams, photographs, and test certificates. The format, size, and number of copies of such reports shall be specified by the Purchaser.
- 59.2. Quantitative progress reports shall refer to the project schedule in sufficient detail to enable the Purchaser to assess performance, schedule witness dates, and evaluate forecasts, including reports on key subcontracts, where applicable. Within seven (7) days after each report submission—and at other times as reasonably requested by the Purchaser—the Bidder and Purchaser shall meet to discuss progress.
- 59.3. Weekly progress reports shall include but not limited to:
 - 59.3.1. Executive summary
 - 59.3.2. Description of the work and services performed and goods and materials delivered and erected during the preceding week.
 - 59.3.3. Necessary photographs of work done in the manufacturer's shop and erection site which shall be taken when and where indicated by the Purchaser. Photographs shall be approximately 100 x 125 mm in size including a margin of 5 mm side for fixing. Adequate numbers of photographs shall be submitted indicating various stages of manufacture and erection of critical items. Each photograph shall contain the date, the name of the Bidder and the title of the view taken.
 - 59.3.4. Updated project schedule showing progress to the end of the week (as percentages completed of the Bidder's activities broken down into significant elements of the works), and the current schedule of activities and the targets for the next week.
 - 59.3.5. Identification of areas with foreseeable problems which in the opinion of the Bidder may affect the project schedule.
 - 59.3.6. Such other information and supporting documentation as the Purchaser may require satisfying himself about the timely manufacture, delivery and erection of equipment as per contract.
- 59.4. The Purchaser shall advise the Bidder about the number of copies of progress reports and, where relevant, photographs he has to submit each week together with the names and addresses of persons (Communication Matrix) to whom they are to be sent. Purchaser will also advise the Bidder regarding the format of the Monthly Progress report.
- 59.5. In addition to the above, the Bidder shall promptly furnish all reports, records, and information as may be requested by the Company, in a form and frequency specified by the Company. The Company retains the right to alter the format and requirements of such submissions, and

the Bidder shall be bound to comply with any revised reporting obligations as communicated by the Company

60. Dispute Resolution & Arbitration

- 60.1. The Parties shall make all reasonable efforts to resolve amicably, through mutual discussions, any disputes or differences arising out of or in connection with this Contract. In the event that such disputes remain unresolved for thirty (30) days from the date either Party notifies the other in writing of the dispute, either Party may refer the matter to arbitration.
- 60.2. Arbitration shall be conducted by a tribunal comprising two arbitrators - one to be appointed by each Party. The two arbitrators thus appointed shall mutually select a third individual to act as the presiding arbitrator prior to entering upon reference, if and when required. The arbitration proceedings shall be undertaken in accordance with the provisions of the Indian Arbitration and Conciliation Act, 1996 and its 2015 and 2019 amendments. The seat and venue of arbitration shall be New Delhi, India. The language of all proceedings, documents, and communications shall be English. The arbitral process shall be completed within a maximum period of three (3) months from constitution of the arbitral tribunal.
- 60.3. Reference to negotiation and/or arbitration may proceed regardless of whether the Works have been completed, provided that the contractual obligations of both the Purchaser and the Bidder shall remain unaffected during pendency of arbitration. Under no circumstances shall the Bidder suspend execution of the Works, in whole or in part, on account of ongoing arbitration. Payments due to the Bidder shall continue to be made as per the terms of the Contract.
- 60.4. All disputes arising out of or in relation to this Contract that require recourse to judicial proceedings shall be subject to the exclusive jurisdiction of the courts at Delhi, India.

61. Termination for convenience of Purchaser

- 61.1. Purchaser at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Bidder. Purchaser shall pay the Bidder for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Bidder to that effect.
- 61.2. Payment of such compensation is the sole and exclusive remedy of the Bidder for termination of this Agreement by Purchaser hereunder and the Bidder shall not be entitled to, and hereby waives, claims for lost profits and all other damages and expenses.
- 61.3. Bidder hereby agrees that substantiation for settlement of any claims submitted by Bidder 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 Bidders/Vendor as the case may be.

62. Entire Agreement & Amendment

- 62.1. This Agreement constitutes the entire understanding between BYPL and the Bidder regarding the subject matter herein and supersedes all prior agreements, whether written or oral, that relate to such matters. Any modification, amendment, or alteration to this Agreement shall be valid only if documented in writing and duly executed by authorized representatives of both BYPL and the Bidder.

63. Notice & Communication

- 63.1. Any notice or other formal communication under this Agreement shall be in writing, signed by or on behalf of the party issuing it, and shall be sent by registered post with

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acknowledgement due (A.D.) to the addresses of the Bidder or BYPL as stated herein, or to such other addresses as may be mutually agreed upon in writing by the Parties from time to time.

- 63.2. Notices and formal communications may also be transmitted via the official email addresses of the authorized representatives of the Bidder or BYPL. Such electronic communications shall be deemed duly delivered upon successful transmission and acknowledgement by the recipient.
- 63.3. All communications, correspondence, and documentation pertaining to the Purchase Order shall be directed strictly as specified in this Agreement.

64. Acceptance

- 64.1. The Bidder hereby acknowledges and confirms review of BYPL's Policy on legal and ethical standards for Bidders, as set forth in the "Vendor/Bidder Code of Conduct" displayed on BYPL's official website (www.bsesdelhi.com). The Bidder agrees that the Bidder Code of Conduct shall form an integral part of the Contract, Purchase Order (PO), or Work Order (WO). The Bidder undertakes to fully comply with the Vendor/Bidder Code of Conduct, and acknowledges that any violation shall constitute a breach of the Contract/PO/WO. In the event of such breach, whether or not it causes any actual loss or damage, BYPL reserves the right to recover any loss or damage from the Bidder. The Bidder shall indemnify and hold harmless BYPL against any claims, litigation, or other consequences arising out of any breach or violation of the Bidder Code of Conduct by the Bidder, its officers, agents, or representatives.
- 64.2. Acceptance of the Contract includes acceptance of all terms and conditions referenced therein, including technical specifications, drawings, general conditions, detailed scope of work, and any equipment drawings provided to the Bidder.
- 64.3. The contractual obligations of BYPL and the Bidder are strictly limited to the terms and conditions set forth in the Contract. No amendment, modification, or alteration to the Contract shall be valid unless made in writing and signed by authorized representatives of both Parties.
- 64.4. All services and supplies under this Contract are expected to be fully aligned with BYPL's Vision, Mission, and Values. These can be reviewed at <https://www.bsesdelhi.com/web/bypl/about-bses>.

QUANTITY AND DELIVERY REQUIREMENTS

Sl. No.	BYPL SAP Code	Item Description	Specification	Total Qty. (Nos)	Tentative Delivery Schedule	Destination
1	2100004701	CBL,PWR,630MM2; 1CORE;66KV;AL	BSES-TS-40- 1C66-R0	1,000	1 km per month	BYPL Stores Delhi
2	2100003598	CBL,PWR,1000MM2 ;1C;66KV;AL		10,000	10 km per month	

The delivery schedule shown above is tentative. PO(s) will be released as per the actual requirement. However, the Bidder has to deliver the material within the delivery schedule provided.

Schemes may be executed in a phased manner.

APPENDIX II

ANNEXURE – 2.01

FORMAT OF PERFORMANCE BANK GUARANTEE
(To be executed on a Non-Judicial Stamp Paper of appropriate value)

This Guarantee made at _____ this [____] day of [____] 20XX

1. WHEREAS M/s BSES Yamuna Power Limited, a Company incorporated under the provisions of Companies Act, 2013 having its Registered Office at Shaktikiran Building, Karkardooma, Delhi 110032, India hereinafter referred to as the " Owner ", (which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, executors and assigns).
2. AND WHEREAS the Owner has entered into a contract for _____ (Please specify the nature of contract here) vide Contract No. _____ dated _____ (hereinafter referred to as the "Contract") with M/s. _____, (hereinafter referred to as "the Bidder", which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include each of their respective successors and assigns) for providing services on the terms and conditions as more particularly detailed therein.
3. AND WHEREAS as per clause ____ of Conditions of Contract, the Bidders are obliged to provide to the Owners an unconditional bank guarantee for an amount equivalent to ten percent (10%) of the total Contract Value for the timely completion and faithful and successful execution of the Contract from [_____] *pl. specify the name of Bank*) having its head/registered office at [_____] through its branch in _____ (*pl. specify the name of Branch through which B.G is issued*) hereinafter referred to as "the Bank", (which expression shall unless it be repugnant to the context or meaning thereof be deemed to include its successors and permitted assigns).
4. NOW THEREFORE, in consideration inter alia of the Owner granting the Bidders the Contract, the Bank hereby unconditionally and irrevocably guarantees and undertakes, on a written demand, to immediately pay to the Owner any amount so demanded (by way of one or more claims) not exceeding in the aggregate [Rs.].....(*in words*) without any demur, reservation, contest or protest and/or without reference to the Bidder and without the Owner needing to provide or show to the Bank, grounds or reasons or give any justification for such demand for the sum/s demanded.

APPENDIX II NIT NO: CMC/BY/25-26/RS/SKS/SV/41 [RFx Number: 2200000174]	Page 1 of 7	Bidders seal & Signature
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5. The decision of the Owner to invoke this Guarantee and as to whether the Bidder has not performed its obligations under the Contract shall be binding on the Bank. The Bank acknowledges that any such demand by the Owner of the amounts payable by the Bank to the Owner shall be final, binding and conclusive evidence in respect of the amounts payable by the Bidder to the Owner. Any such demand made by the Owner on the Bank shall be conclusive and binding, notwithstanding any difference between the Owner and the Bidder or any dispute raised, invoked, threatened or pending before any court, tribunal, arbitrator or any other authority.
6. The Bank also agrees that the Owner at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor without proceeding against the Bidders notwithstanding any other security or other guarantee that the Owner may have in relation to the Bidder's liabilities.
7. The Bank hereby waives the necessity for the Owner first demanding the aforesaid amounts or any part thereof from the Bidders before making payment to the Owner and further also waives any right the Bank may have of first requiring the Owner to use its legal remedies against the Bidders, before presenting any written demand to the Bank for payment under this Guarantee.
8. The Bank's obligations under this Guarantee shall not be reduced by reason of any partial performance of the Contract. The Bank's obligations shall not be reduced by any failure by the Owner to timely pay or perform any of its obligations under the Contract.
9. The Bank further unconditionally and unequivocally agrees with the Owner that the Owner shall be at liberty, without the Bank's consent and without affecting in any manner its rights and the Bank's obligation under this Guarantee, from time to time, to:
 - (i) vary and/or modify any of the terms and conditions of the Contract;
 - (ii) Forebear or enforce any of the rights exercisable by the Owner against the Bidders under the terms and conditions of the Contract; or
 - (iii) Extend and/or postpone the time for performance of the obligations of the Bidders under the Contract;

and the Bank shall not be relieved from its liability by reason of any such act or omission on the part of the Owner or any indulgence shown by the Owner to the Bidders or any other reason whatsoever which under the law relating to sureties would, but for this provision, have the effect of relieving the Bank of its obligations under this Guarantee.

10. This Guarantee shall be a continuing bank guarantee and shall not be discharged by any change in the constitution or composition of the Bidders, and this Guarantee shall not be affected or discharged by the liquidation, winding-up, bankruptcy, reorganization, dissolution or insolvency of the Bidders or any of them or any other circumstances whatsoever.
11. This Guarantee shall be in addition to and not in substitution or in derogation of any other security held by the Owner to secure the performance of the obligations of the Bidders under the Contract.
12. NOTWITHSTANDING anything herein above contained, the liability of the BANK under this Guarantee shall be restricted to _____ (*insert an amount equal to ten percent (10%) of the Contract Value*) and this Guarantee shall be valid and enforceable and expire on _____ (*pl. specify date*) or unless a suit or action to enforce a claim under this Guarantee is filed against the Bank on or before the date of expiry.
13. On termination of this Guarantee, all rights under the said Guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities hereunder.
14. The Bank undertakes not to revoke this Guarantee during its validity except with the prior written consent of the Owner and agrees that any change in the constitution of the Bank or the Bidders shall not discharge our liability hereunder.
15. This Guarantee shall be governed by the laws of India. Any suit, action, or other proceeding arising out of, connected with, or related to this Guarantee or the subject matter hereof shall be subject to the exclusive jurisdiction of the courts of **Delhi**, India.

Dated this day of 20XX at

(Signature)

.....
(Name)

.....
(Designation with Bank Stamp)

Attorney as per
Power of Attorney No.....

Date.....

BYPL BANK DETAILS WITH IFSC CODE:

1. Name of the Bank: Axis Bank Limited
2. Branch Name & Full Address: C-58, Basement & Ground Floor, Preet Vihar, Main Vikas Marg,
New Delhi 110092
3. Branch Code: 055
4. Bank Account No: 911030003596085
5. IFSC Code: UTIB0000055
6. Swift Code: AXISINBB055

FORMAT OF WARRANTY/GUARANTEE CERTIFICATE

BSES YAMUNA POWER LIMITED Shaktikiran Building, Karkardooma, Delhi -110032.

Ref. Purchase Order No. :

Dear Sir,

We hereby confirm that the.....dispatched to BSES YAMUNA POWER LTD vide invoice no.....

DT.....is exactly of the same nature and description as per above mentioned Purchase Order.

We further confirm that we will replace/repair our.....free of cost if any manufacturing defect during.....months from the date of dispatch of material or.....months from the date of commissioning whichever is earlier.

Bidder Name & Signature

GST UNDERTAKING

The Bidder shall give an undertaking in the following words on each invoice in the absence of which tax payment as on the Bidder's invoice may be withheld.

"The tax component as mentioned in the invoice shall be deposited with the GST Department as per law by way of actual payment or by way of legal set off as per law. The turnover billed shall be duly declared in my GST returns a copy of which shall be filed with the Purchaser. Should the input tax credit to the Purchaser be denied by way of any lapse on the part of the Bidder, the same shall be paid on demand and in any case the Purchaser is authorized to deduct the tax equivalent amount from the amount payable to the Bidder"

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SUMMARY OF COMMERCIAL TERMS AND CONDITIONS

SL NO	PARTICULARS	CLAUSE AS PER TENDER	BIDDER'S CONFIRMATION
1	Validity of Bid	120 days from the date of submission of the bid	
2	Price Basis	"Firm", FOR Delhi store(s)/site(s) basis. Prices shall be inclusive of all taxes & duties, freight up to Delhi store(s)/site(s).	
3	Unloading	Unloading at stores/sites shall be in the Bidder's scope	
4	Transit Insurance	Transit insurance shall be in the vendor's scope.	
5	Payment Terms	100% payment shall be paid in 45 days from the date of receipt and acceptance of GOODS at the store(s)/site(s) against submission of documents.	
6	Delivery Schedule	<ul style="list-style-type: none"> - Vendor shall submit Transmittal Approval Documents (GTP/Drawings/QAP/etc.) within 15 days from the LOI/PO to the concerned BYPL officials. - BYPL shall review and either approve or provide comments on the submitted documents within 7 days of the initial submission. - If resubmission is required, vendor shall complete the resubmission within 5 days from the receipt of the comments. - For subsequent resubmissions, BYPL shall respond within 5 days. - Repeated rejections due to non-compliance is not desirable. - Delivery shall be completed within 03 Months from the LOI/PO date or completion as per the schedule provided by BYPL. 	
7	Defect Liability Period	66 months from the date of receipt of equipment/item at store(s)/site(s).	
8	Liquidated Damages	1% (One) of the basic value (ex-works value) of undelivered units per week of delay or part thereof, subject to maximum of 10% (Ten) of the total basic value (ex-works value) of undelivered units.	
9	Performance Bank Guarantee	To be submitted within twenty-eight (28) days from the date of issuance of the Letter of Intent/Award/PO. Thereafter Bidder shall submit PBG on Purchase Order (PO) basis equivalent to 10% of the PO value (including GST) valid for 30 months from the last date of receipt, whichever is earlier plus 3 months towards claim period. Upon receipt of the PBG by BYPL against RC/PO, the EMD shall be released.	
10	Reverse Auction	Acceptance for participation in Reverse Auction event	

Seal of the Bidder:

Signature:

Name:

VOLUME – II

FINANCIAL BID (PRICE FORMAT)

FINANCIAL BID FORMAT NIT NO: CMC/BY/25-26/RS/SkS/SV/41 [RFx Number: 2200000174]	Page 1 of 2	Bidders seal & Signature
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ALL PRICES IN INR (₹)

S. No.	DESCRIPTION OF GOODS	HSN CODE (8 Digit Mandatory)	UoM	QTY (A)	UNIT BASIC PRICE INCL FREIGHT (₹) (B)	UNIT GST & CESS AS APPLICABLE (CGST & SGST/UTGST or IGST) (₹) (C)		UNIT LANDED RATE (All Inclusive) (₹) (D = B+C)	TOTAL LANDED VALUE (₹) (E = DXA)
						%	AMT		
1	Supply of 66kV XLPE Insulated Aluminium Conductor Power Cable of size 1Cx630 mm ² (With Extruded Semi-Conductive Layer Only)		Meter	1,000					
2	Supply of 66kV XLPE Insulated Aluminium Conductor Power Cable of size 1Cx1000 mm ² (With Extruded Semi-Conductive Layer Only)		Meter	10,000					
GRAND TOTAL LANDED VALUE (₹)									
In words									

NOTE: Cost of all tests as per technical specification is to be included. No separate/extra charges will be paid.

The Un-priced bid should be marked as **"Quoted"** and be submitted with Part – A

We declare that the following are our quoted prices in INR for the entire package.

Date: Bidders Name:

Place: Bidders Address:

Signature: Designation:

Printed Name: Common Seal:

VOLUME – III
TECHNICAL SPECIFICATIONS

BSES

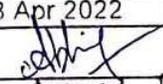
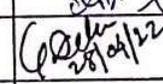
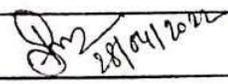
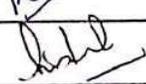
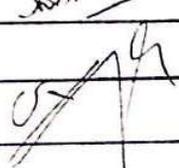
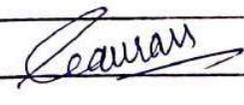
BSES

Technical Specification

For

66kV, Single core Cable

Specification no – BSES-TS-40-1C66-R0

Rev.		0
No. of Pages		31
Date		28 Apr 2022
Prepared by	Abhishek Vashistha	
	Gautam Deka/ Pronab Bairagi	 28/04/22  28/04/2022
Reviewed by	Puneet Duggal	
	Amit Tomar	
Approved by	Gaurav Sharma	
	Gopal Nariya	

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TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE**1.0 SCOPE**

The scope of supply includes Design, Manufacture, testing at manufacturer's works before dispatch, packing, delivery including unloading and stacking of 66kV Single Core cable complete with all accessories at site/store.

2.0 STANDARDS & CODES

Materials, equipment and methods used in the manufacture of Cable shall conform to the latest edition of following:

S No.	STANDARD	DESCRIPTION
2.1	IS-8130	Conductor for insulated electric cables & flexible cords
2.2	IS-5831	PVC insulation and sheath of electric cables
2.3	IS-3975	Mild steel wires strips and tapes for armoring cables
2.4	IS-5216	Guide for safety procedures and practices in electrical works
2.5	IS-7098 (Part – III)	Cross-linked polyethylene insulated thermoplastic sheathed cables specification.
2.6	IS – 10810	Methods of test of cables
2.7	IEC-60811	Common test methods for insulating and sheathing materials of electric cables and optical cables
2.8	IEC-60228	Conductor for insulated cables
2.9	IEC-60840	Power cable with extruded insulation and their accessories for rated voltage above 30kV up to 150kV- Test methods and requirements

3.0 SERVICE CONDITIONS

Cables to be supplied against this specification shall be suitable for satisfactory operation under the following service conditions-

3.1	Average grade atmosphere	Heavily polluted, Dry
3.2	Maximum altitude above sea level	1000M
3.3	Relative Humidity	100%
3.4	Ambient air temperature	Highest 50 Deg C Average 40 Deg C Minimum 0 Deg C
3.5	Operating temperature	0 Deg C - 50 Deg C
3.6	Rainfall	750mm concentrated in four months

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE**4.0 DESIGN FEATURES**

S No.	Parameters	Technical Requirements	Offered by Vendor
4.1.0	Manufacturing process	The cable shall be manufactured by “Triple head extrusion process”. The conductor screen, Insulation & Insulation screen shall be co-extruded by onetime process to ensure homogeneity and reduction of voids in the insulation and the screening system of the cable, whereby enhancing the life of the cable. The cable shall be strictly manufactured by “DRY CURE and DRY COOLING ” process.	
4.2.0	Conductor	Electrolytic grade aluminum conductor shall consist of flexibility class-2 in accordance with IS 8130/IEC 60228. The shape of conductor shall be compacted, stranded, and circular.	
4.3.0	Longitudinal water sealing of conductor	Shall be achieved by water swelling fibers in the interstices of the conductor. The fibers shall turn into jelly/swell, when in contact with water making the conductor water tight.	
4.4.0	Semi conducting separator tape	Semi-conducting separator tapes shall be applied over the conductor, suitable for continuous operating conductor temperature of 90°C.	
4.5.0	Conductor screen	The conductor screen shall consist of extruded semi-conducting compound which shall be fully compatible with the conductor and extruded insulation. Outer surface of semiconductor screen shall be super smooth, cylindrical and firmly bonded to the overlaying insulation.	
4.6.0	Insulation	The extruded WTR - XLPE insulation shall be of very high degree of purity. The average thickness shall not be less than nominal value as given in annexure “B”. The minimum thickness at any point shall not be less by more than 10% of the nominal value. Percentage eccentricity of the insulation shall not be more than 10%.	
4.7.0	Insulation Screen	The insulation screen shall consist of extruded semi-conducting compound which shall be fully compatible with extruded insulation. Insulation screen shall be firmly bonded to the insulation.	

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Parameters	Technical Requirements	Offered by Vendor
4.8.0	Make of insulation and semi conducting screen	For Insulation: WTR-XLPE of Dow/Borealis/Hanwa For Conductor & Insulation Screen: Semiconducting compound of Dow/Borealis/Hanwa Any deviation to above shall not be acceptable.	
4.9.0	Core	The ovality of the core shall not be more than 5%.	
4.10.0	Inner Longitudinal water sealing bedding	Semi-conducting water swell-able tapes shall be applied over the extruded semi-conducting insulation screening with a minimum overlap of 10%.	
4.11.0	Metal screening (if required to meet the short circuit rating)	The metallic screen shall consist of a layer of copper tape applied in helical form. Copper tape overlap: Minimum 10%	
4.12.0	Outer Longitudinal water sealing bedding (if metallic screening is provided)	Semi-conducting water swell-able tapes shall be applied over the metallic screen again with a minimum overlap of 10%.	
4.13.0	Metallic sheath	The metallic sheath shall be made of Corrugated aluminum sheathing with minimum thickness of 1.75mm and nominal thickness of 1.8mm, provided with high-viscosity bitumen-based compound coating, in conjunction with textile tape as carrier material for corrosion protection of the outer surface of corrugated aluminium sheathing. Further the corrugations shall be filled with compatible filler material to provide smooth round surface over the aluminium corrugated sheathing, so as to prevent ingress / traveling of water along the corrugations	
4.14.0	Outer Sheath	The outer sheath shall consist of extruded black colored HDPE type ST-7 with anti-termite protection. The Minimum thickness shall be 3.3 mm at any point. Nominal Thickness shall be 4 mm. Carbon black content shall be 2.5 ±0.5%	
4.15.0	Semi conductive layer over the	Extruded Semi conductive layer shall be either extruded or graphite coating.	

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

	outer sheath		
4.16.0	Cable Rating	The cable size shall be suitable to carry rated load current on 66 kV continuously without exceeding the maximum conductor temperature of 90 ⁰ C.	
4.17.0	Drum Length	500 meter +/- 5% (short lengths not acceptable except the last length and minimum acceptable short length shall be 250 meters.). The Overall tolerance - 2 % for the total cable length of the entire order Manufacturer shall not be allowed to put two cable pieces of different short length in same cable drum.	
4.18.0	Embossing	<p>The extruded outer sheath shall be embossed with meter marking at interval of 1 meter. Meter marking shall start from zero in every drum.</p> <p>The "A" end meter marking and "Z" end meter marking and the drum lengths shall be printed on the drum flange along with other markings.</p> <p>The outer sheath shall also be embossed with (min.)</p> <ul style="list-style-type: none">a) Voltage designationb) Type of construction/cable code (e.g.A2X2Y)c) Number of core and nominal cross sectional area.d) Type of cable "Electric Cable"e) Manufacturers name & trademarkf) Name of buyer (e.g.BSES)g) Month & year of manufacturingh) Batch no / Lot no.i) Sequential length markingj) Purchase order number & datek) ISI markl) Individual Drum number <p>Progressive sequential marking shall be start at zero for each drum</p>	
4.19.0	Joints and Terminations	The Joints and Terminations to be offered with the cable shall be fully type tested as per IS 60840. The Joints and Terminations shall match all technical performance parameters of the specified cable. The Joints and Terminations would be either Heat Shrink or Cold-Shrink.	

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE**5.0 INSPECTION & TESTING**

S No.	Parameters	Technical Requirements	Offered by Vendor
5.1.0	Type test	<p>The cable and the associated accessories like Joints and terminations of same voltage, design and number of cores shall be Type Tested from CPRI/ERDA as per IEC 60840/IS7098 (part-3) with latest amendments.</p> <p>Type test report (from CPRI/ERDA only) of not more than five (5) years old shall be submitted for the same type, size and voltage rating of the cable offered, along with the bid to qualify in the tender.</p> <p>All type tests shall be carried out in accordance with IEC-60840 / IS 7098 (part-3) and in accordance with the sequence prescribed therein.</p> <p><u>Type Test Required After Award of PO:</u> Type test on one cable drum of each type/rating from any lot shall be conducted at CPRI/ERDA on sample basis as per relevant IS/IEC. Sample shall be sealed by BSES during inspection of cable. This type test is applicable subject to BSES requirement and cost shall be borne by BSES</p>	
5.2.0	Routine test	<p>a) Each drum length of cable shall be subjected to the tests as mentioned in IEC 60840, IS 7098 (Part-3), IEC 60229 and IS 10810</p> <p>b) Impulse voltage test of one drum and Physical dimension of each and every layer along with component.</p>	
5.3.0	Acceptance Tests	<p>The sampling & acceptance tests shall be conducted as per IEC: 60840 / IS: 7098 (Part-3) and approved BSES QA plan for each lot of cable during the inspection of lot at manufacturer's works.</p>	

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

5.4.0	Special tests	The following tests shall be carried out as special tests a) Conductor examination as per IEC-60840 for conformance of IEC 60228/IS 8130. b) Measurement of thickness of insulation as per Clause 10.6 of IEC- 60840 and Clause 8 of IEC-60811-1-1./ IS 10810 part 6 c) Void and contamination as per IS 7098 (Part-3) d) Sheath Integrity Test e) Carbon black content test in Inner sheath & Outer Sheath f) Hot set test for TR-XLPE insulation as per Clause 10.9 of IEC-60840/ IS 10810 Part 30	
5.5.0	Inspection	The buyer reserves the right to inspect cables at the Seller's works at any time prior dispatch, to verify compliance with the specifications. In-process and final inspection call intimation shall be given in 10 days advance to purchaser. In the event of any discrepancy in the test reports i.e. test reports not acceptable or any type tests(including special /additional tests, if any) not carried out , same shall be carried out without any cost implication to BSES before dispatch of cable.	
5.6.0	Test certificates	Three sets of complete test certificates shall be submitted along with the dispatch documents.	

6.0 SHIPPING, HANDLING & SITE SUPPORT

6.1.0	Packing	The cable shall be wound on non-returnable steel drums of suitable size of minimum hub diameter of 20D (where D is the overall diameter of the cable) and packed conforming to international standards. The drum shall be fully enclosed by suitable packing preferably PP sheeting. Cable shall have sea worthy packing in case cables are dispatched by shipping lines.	
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TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

6.2.0	Pulling eye & sealing of Cable ends	A cable pulling eye shall be provided at “Z” end of cable on each drum. Suitable fillings/putty shall be used for sealing gap between outer sheath and pulling eye. Heat shrinkable sleeves with the pulling eye shall also be provided. The pulling eye shall be directly connected to the conductor and be capable to withstand a tensile load of 30N/mm ² of conductor area. The “A” end of the cable shall be sealed with filling material/putty and heat shrinkable cap. Drawing of the pulling eye shall be submitted along with the bid for review.
6.3.0	Drum identification label	The following information shall be marked on the drum: The following information shall be marked on the drum: a) Drum identification number b) Trade name or trade mark; if any c) Name of manufacturer d) Name of buyer i.e. BSES e) Nominal sectional area of the conductor of the cable f) Type of cable and voltage for which it is suitable g) Length of the cable on the drum, with “A” end and “Z” end markings h) Purchase order number with SAP item code i) Year and month of manufacturing j) Direction of rotation of drum (an arrow) k) Net weight of cable in drum and gross weight of cable with drum l) Batch no or Lot no.
6.4.0	Shipping	The seller shall give complete shipping information concerning the gross weight, size of each packing.
6.5.0	Handling & Storage	Manufacturer instruction shall be followed. Detail handling & storage instruction sheet/manual needs to be furnished before commencement of supply.
6.6.0	Transit damage	The seller shall be responsible for any transit damage due to improper packing.

7.0 DEVIATIONS

7.1	Deviation	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.
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Annexure – A**Scope, Documentation and Delivery schedule**

Document/Drawing submission shall be as per the matrix given below:

- i. All documents/drawings shall be provided in soft copy only in returnable Pen drives
- ii. Language of the documents shall be English only.
- iii. Incomplete submission shall be liable for rejection.
- iv. Document check sheet compliance shall be the first sheet for each submission stage i.e. Technical bid, Drawing Approval, Pre Dispatch.
- v. No submission is acceptable without check list compliance.
- vi. Deficient/ improper document/ drawing submission shall be liable for rejection.
- vii. Order of documents shall be strictly as per the check list.
- viii. Any drawing not included in the below table but necessary for detailed engineering shall be deemed to be included in bidder's scope.

S No.	Description	Bid	Approval	Pre Dispatch
8.1	Guaranteed Technical Particulars (GTP)	required	required	
8.2	Deviation Sheet, if any	required	required	
8.3	Detailed cross sectional drawing of cable	required	required	
8.4	Type test reports for the offered type and rating of cable and joints & terminations	required	required	
8.5	Complete product catalogue and Manual	required	required	
8.6	Certification for quality standards	required		
8.7	Make of Raw Materials	required	required	
8.8	Cable de-rating factors	required	required	
8.9	Dimensional drawing for pulling eye & End cap		required	
8.10	Manufacturer's Quality Assurance Plan		required	
8.11	Program for production and testing		required	
8.12	Detailed installation & commissioning instructions		required	
8.13	Test certificates of all raw materials			required
8.14	Inspection and routine test reports, carried out in manufacturer's works			required

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE**Annexure–B: Guaranteed Technical Particulars (Data by Supplier)**

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
1	Name of Manufacturer			
2	Country of manufacturer			
3	Type of cable			
4	Standard according to which cable is manufactured			
5	Rated voltage	kV	38/66	
6	Highest system voltage	kV	72.5	
7	System frequency	Hz	50	
8	No of phases per circuit	Nos	3	
9	System earthing		Solidly grounded	
10	Rated short time current of conductor	kA		
11	Rated short time current of metal sheath (alone)	kA		
12	Rated short time current of metal screen (if provided)	kA		
13	Rated short time current of metal sheath and screen	kA	19	
14	Duration of short circuit current	Sec	1	
15	Impulse withstand voltage 1.2/50 micro sec wave	kVp	325	
16	Power frequency withstand voltage	kV(rms)	140	
17	Conductor			
a)	Nominal cross sectional area	mm ²	1000 / 630	
b)	Type class of conductor		Compacted Stranded Circular	
c)	Material of conductor		Aluminum	
d)	Flexibility class of conductor		Class -2	
e)	Minimum numbers of strands	No.		
f)	Diameter of strands before compaction. (nominal / Minimum)	mm / mm		
g)	Material of longitudinal water sealing filling of conductor			

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
18	Details of semi conducting tape over the conductor			
19	Conductor Screen			
a)	Material and type			
b)	Minimum thickness	mm	0.8	
c)	Make and grade of semi conducting compound.			
20	Insulation			
a)	Material of Insulation		TR-XLPE	
b)	Nominal thickness	mm	11	
c)	Minimum thickness		9.9	
d)	Make and grade of insulation compound			
e)	Maximum dielectric stress at the conductor surface	kV/mm		
21	Insulation screen			
a)	Material and type			
b)	Minimum thickness	mm	0.8	
c)	Make and grade of semi conducting compound.			
22	Inner water swellable tape			
a)	Nominal thickness	mm	0.3	
b)	Minimum swell height in one minute.	mm	12 mm in one minute	
c)	Water swallable tape overlap	%	min 10%	
23	Copper tape required to meet the short circuit rating (if provided)			
a)	Thickness and width of copper tape	mm / mm		
24	Outer water swellable tape	mm		
a)	Nominal thickness	mm	0.3	

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
b)	Minimum swell height in one minute.	mm	12 mm in one minute	
c)	Overlap	%	10% min	
25	Nominal diameter under metal sheath	mm		
26	Material of the metal sheath		Corrugated aluminum(with corrosion protection& corrugation filling)	
27	Minimum thickness of Corrugated Aluminum sheath	mm	1.75	
28	Nominal radial clearance allowed under metal sheath (in case of corrugated aluminum sheathing)	mm	Vendor to provide	
29	Nominal diameter over metal sheath	mm		
30	Outer Sheath			
a)	Material and type		HDPE type ST 7	
b)	Minimum thickness	mm	3.3	
c)	Nominal thickness	mm	4	
d)	Anti termite treated?		Yes / No	
e)	Color		Black	
31	Material of semi-conductive coating/extrusion over the outer jacket			
32	AC test voltage at works for insulation.	KV(rms)	90	
33	DC test voltage at works for outer jacket.	KV (DC)	25	
34	Overall dia of completed single core cable	mm		
35	Weight per meter of complete cable	kg/m		

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
36	Short circuit capacities with maximum conductor temperature of 250Deg C : (conductor temperature of 90 Deg C at the commencement of short circuit) a) 0.5 second duration b) 1 second duration c) 2 second duration d) 3 second duration	kA		
37	Minimum radius of bend round: which cable can be laid a) Direct burial inground b) Inducts	mm		
38	Maximum D.C. resistance of conductor per KM at 20°C	Ohm/km	0.0469 for 630 mm ² cable 0.0291 for 1000 mm ² cable.	
39	Maximum AC resistance of conductor per KM at 90 deg. C	Ohm		
40	Equivalent star reactance per KM of 3 phase circuit at 50 Hz	Ohm		
41	Maximum electrostatic capacitance per KM of cable	pf		
42	Maximum continuous current carrying capacity per circuit when laid in ground as per the following parameters (with screens cross bonded) -Maximum continuous conductor temperature of 900 C -Maximum conductor temperature during short circuit of 2500 C -Ground temperature of 300C -Soil resistivity of 1500C- cm/Watt -Depth of laying of 150cm	Amp		
43	Maximum continuous current carrying capacity per cable when laid in air with ambient temperature of 40°C and other	Amp		

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
	parameters as per S no 42 (with screens cross bonded)			
44	Rating factors for ambient air temperature attached	Yes/No		
45	Rating factors for ground temperature attached	Yes/No		
46	Rating factors for phase spacing in flat formation attached	Yes/No		
47	Rating factors for grouping of cable laid in ground in horizontal formation attached	Yes/No		
48	Rating factors for grouping of cable laid in ground in tri-foil touching formation attached	Yes/No		
49	Rating factors for thermal resistivity of soil attached	Yes/No		
50	Rating factors for depth of laying attached	Yes/No		
51	Max.power factor of charging KVA of cable when laid direct in the ground at normal voltage frequency at conductor temperature at 90°C			
52	Max.dielectric power loss of cable per km of 3 phase circuit laid direct in ground at normal voltage, frequency and maximum conductor temperature of 90°C	Watt /km		
53	Sheath loss of cable per KM of 3 phase circuit at normal voltage frequency at maximum continuous current rating. a) Laid direct inground b) Drawn into ducts c) Installed in air	Watt/km		
54	Impedance per KM of 3phase circuit at 50 C/s and maximum conductor temperature. a. Impedance	Ohm		

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
	b. Reactance c. Positive and negative sequence d. Zero sequence e. Capacitance f. Conductance g. Inductive susceptance h. Conductive susceptance			
55	Standard drum length of cable	meters	500 +/- 5% (short lengths not acceptable except the last length)	
56	The overall quantity tolerance	%		
57	Cable to be wound on non returnable steel drum.	Yes/No	Yes	
58	Normal delivery length	meters		
59	Cable pulling Eye to be provided at "Z" end A End shall be provided with sealing end cap	Yes		
60	Tensile load withstand capacity for pulling eye		30 N / mm ²	
61	Approximate shipping weight for the normal deliver length with the drum size (flange dia. in mm and width in mm)	kg		
62	Drum size and weight (Flange dia X flange width X hub dia)			
63	Embossing details on outer sheath			
64	Sequential marking at every meter		Provided	
65	Process of cross linking of polyethylene.			
66	Induced Voltage in sheath, cable			
a)	In trefoil formation	V/km		
b)	In flat formation with D+70	V/km		



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TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

S No.	Description	Unit	Data specified by the purchaser	Data to be filled by the manufacturer
67	Cross Sectional Drawing of offered cable design with layer wise component details		To be provided by bidder	

Annexure - C**List of Sub-Vendors for critical items**

Vendor/Bidder to state sub-vendors' names for other items, wherever approved names are not mentioned, for purchaser's approval during tendering stage else purchaser shall impose as per their requirement and bidder to follow the same in post-order stages.

Ser. No.	Raw Materials		Name of the Make
1.	XLPE Compound	1	Dow Chemicals , U.S.A.
		2	Borealis , Sweden
		3	Hanwha , South Korea
2.	Semi-Conducting Compound	1	Dow Chemicals, U.S.A.
		2	Borealis , Sweden
		3	Hanwha , South Korea
3.	Conductor Water-Blocking tapes / yarn	1	Lantor
		2	Geca
		3	Miracle
		4	Scapa
		5	Sneham International
4.	Water-Swellable Tapes (Pre-slitted)	1	Lantor
		2	Geca
		3	Miracle
		4	Scapa
		5	Sneham International

TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

Ser. No.	Raw Materials		Name of the Make
5.	Aluminium Rod	1	Bharat Aluminium Co. Ltd. (BALCO)
		2	Hindustan Aluminium Co. Ltd. (HINDALCO)
		3	National Aluminium Co. Ltd. (NALCO)
		4	Vedanta (Sesa Sterlite)
6.	Copper Tape	1	Aggarwal Metal
		2	Indian Smelting
		3	Luvata Swedan
		4	Outokumpu Copper Strip AB, Swedan
7	Galvanised Steel Wires / Strips	1	Tata
		2	Balaji
		3	Systematic
		4	Mica Wires Pvt. Ltd.
		5	Bansal Industries
8	PVC Compound	1	Kalpana
		2	Universal
		3	SCJ Plastic
		4	Sriram Polytech
		5	Shri Ram Vinyl, Kota
9	P. P. Fillers	1	Vijoy Polymers
		2	Yash Polymers
		3	AVSL Industries
10	Core Identification Tape	1	AVSL Industries
		2	Yash Polymer



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TECHNICAL SPECIFICATION FOR 66KV SINGLE CORE CABLE

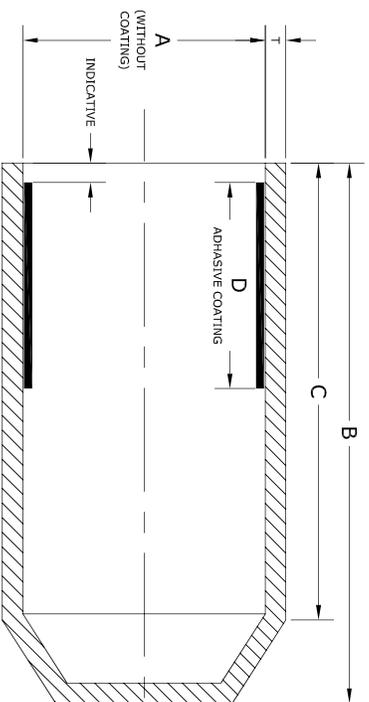
Ser. No.	Raw Materials		Name of the Make
		3	Vijoy Polymers
11	PE Compound	1	Borealis
		3	Shakun
		4	Kalpana

ANNEXURE -D

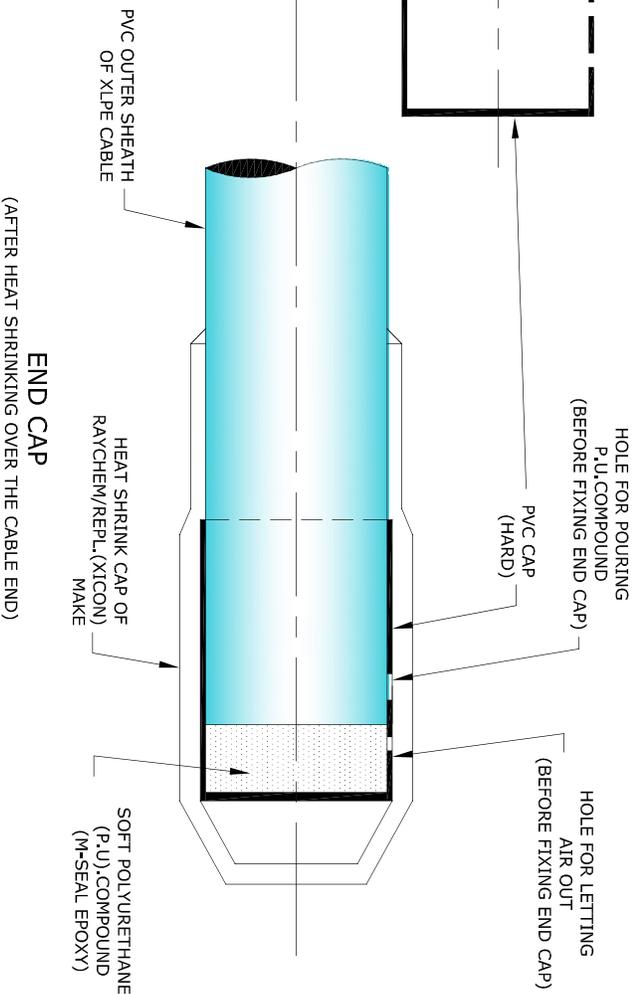
DIMENSIONS

SIZE	A	A	B	C	D	LC %	T
	EXP.(Min.)	REC.(Max)	EXP.(Min.)	EXP.(Min.)	EXP.(Min.)	(WALL REC. ± 20 %)	
EC 120/150	75	34	120	105	50	± 10	4.2
EC 240/300	100	62	130	110	70	± 10	3.5
EC 400	145	75	155	120	70	± 10	4.6

EXP - Expanded (as supplied), REC - Recovered freely, LC - Longitudinal Change, T - Wall Thickness, EC - End Cap



END CAP
(AS SUPPLIED)
SECTIONAL VIEW



MATERIAL SPECIFICATIONS

Characteristics	Test Class	Value	Test Method
A Physical Properties			
1 Specific Gravity	Type	1.05 ± 0.2	ASTM D -1505
2 Water Absorption	Type	1% (max)	ASTM D-570 / ISO 62
3 Tensile Strength	Routine	10 N /sqmm (min)	ASTM D-412 / ISO 37
4 Ultimate Elongation	Routine	300% (min)	ASTM D-412 / ISO 37
5 Hardness	Type	45 shore D ± 3	ASTM D -2240
B Thermal Test			
1 Thermal Ageing (120°C for 500 hrs)	Type	8 N/sqmm (min)	ASTM D-412 / ISO 37
2 Tensile Strength	Type	200% (min)	ASTM D-412 / ISO 37
3 Ultimate Elongation	Type		
C Electrical Properties			
1 Volume Resistivity	Type	10 ¹² ohm-cm. (min)	ASTM D-257 / IEC 93
2 Dielectrical Strength	Type	10 KV/mm. (min)	ASTM D149 / IEC 243
3 Dielectric Constant	Type	5 (max)	ASTM D150 / IEC 250

Note : 1) All dimension in mm
2) Colour Black
3) Size as mentioned in the table shall be stencilled on respective item

BSES

DRAWING No. MISC/E/4-1131/1698

SCALE : NOT TO SCALE DATE: 09-05-2011

END SEALING CAP
(FOR XLPE CABLE)

DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____

REVISIONS

Adil V.P.

ANNEXURE-F

QUALITY ASSURANCE PLAN (QAP)

FOR 66 KV/EHV CABLES



S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification												
A RAW MATERIAL												
1	Aluminium/Copper Rod	a) Tensile strength b) Resistivity c) Diameter d) Chemical composition e) Surface finish	Major Major Major Major Major	Physical Electrical Physical Chemical Visual	Sample Sample Sample Sample Sample	MPS MPS MPS MPS MPS	MPS MPS MPS MPS MPS	Reg./Sheet Reg./Sheet Reg./Sheet Test certificate -	P P P P P	P/V P/V P/V V P	V V V V -	
2	PVC Compound	a) Tensile Strength b) Elongation at break c) Thermal stability	Major Major Major	Physical Physical Physical	Sample Sample Sample	MPS MPS MPS	MPS MPS MPS	Reg./Sheet Reg./Sheet Reg./Sheet	P P P	P/V P/V P/V	V V V	
3	TR-XLPE Compound (Borealis/Dow chemical/ Hamwa)	a) Packing b) Tensile Strength c) Elongation at break d) Hot set test e) Volume Resistivity f) Cure Curve (Max. Torque) g) Density	Minor Major Major Major Major Major Major	Visual Physical Physical Physical Electrical Physical Physical	100% Sample Sample Sample Sample Sample Sample	MPS MPS MPS MPS MPS MPS MPS	MPS MPS MPS MPS MPS MPS MPS	- Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	P P P P P P P	V P/V P/V P/V P/V P/V P/V	- V V V V V V	
4	Semi-conducting Compound (Borealis/Dow chemical/ Hamwa)	a) Packing b) Volume Resistivity c) Tensile Strength d) Elongation at break e) Cure Curve (Max. Torque) f) Density	Minor Major Major Major Major Major	Visual Electrical Physical Physical Physical Physical	100% Sample Sample Sample Sample Sample	MPS MPS MPS MPS MPS MPS	MPS MPS MPS MPS MPS MPS	- Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	P P P P P P	V P/V P/V P/V P/V P/V	- V V V V V	
5	Copper tape	a) Thickness & width b) Tensile Strength c) Elongation at break d) Resistivity	Major Major Major Major	Physical Physical Physical Electrical	Sample Sample Sample Sample	MPS MPS MPS MPS	MPS MPS MPS MPS	Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	P P P P	P/V P/V P/V P/V	V V V V	
6.	Armour wires/strips (Galvanised steel)	a) Dimensions b) Surface condition/finish c) Tensile Strength d) Elongation at break e) Torsion test for round wire f) Wrapping test g) Mass of zinc coating h) Uniformity of zinc coating i) Adhesion test j) Resistivity test	Major Major Major Major Major Major Major Major Major Major	Physical Visual Physical Physical Physical Physical Physical Physical Physical Electrical	Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample	MPS MPS MPS MPS MPS MPS MPS MPS MPS MPS	MPS MPS MPS MPS MPS MPS MPS MPS MPS MPS	Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	P P P P P P P P P P	P/V P/V P/V P/V P/V P/V P/V P/V P/V P/V	V V V V V V V V V V	
7	Water Swellable	a) Dimensions	Minor	Physical	Sample	MPS	MPS	Reg./Sheet	P	P/V	V	



QUALITY ASSURANCE PLAN (QAP)
FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification												
8	Steel Drum	a) Dimension b) Finish & workman ship	Major Minor	Physical Electrical	Sample Sample	MPS MPS	MPS MPS	Reg./Sheet Reg./Sheet	P P	P/V P/V	V V	
9	Binder tape	a) Dimensions & material	Minor	Physical	Sample	MPS	MPS	Reg./Sheet	P	P	V	
10	Polypropylene filler	a) Size	Minor	Physical	Sample	Purchase order	Purchase order	Reg./Sheet	P	P	V	
11	Heat shrinkable end cap	a) Bore diameter b) Length of end cap	Major Minor	Physical Physical	1 sample per size 1 sample per size	-- --	-- --	Reg./Sheet Reg./Sheet	P P	P P	V V	
B PROCESS INSPECTION												
1	Wire Drawing	a) Diameter b) Surface finish c) Tensile test (for Al) d) Elongation test (for Cu) e) Wrapping test (for Al)	Major Major Major Major Major	Physical Visual Physical Physical Physical	Sample 100 % Sample Sample Sample	Smooth & free from defects IS: 8130/84 IS: 8130/84 IS: 8130/84	IS: 8130/84 IS: 8130/84 IS: 8130/84	Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	- - - - -	P P P P P	V V V V V	
2	Stranding	a) No. of wires/strands b) Lay length & Lay direction c) Dia of conductor d) Surface finish	Major Major Major Major	Physical Physical Physical Visual	At the time of m/c setting -do- During setting & once in each shift 100 %	No surface defects and free from sharp edges, scratches, grease, oil etc.		Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	- - - -	P P P P	V V V V	
3	Core extrusion (Conductor screen, insulation & insulation screen)	a) Compound Make/Grade b) Thickness of insulation & extruded S.C. layers c) Surface finish d) Printing on outer semi- conducting layer e) Tensile Strength f) Elongation at break g) Hot set test g1) Ovality of core	Major Major Minor Major Major Major Major Minor	Visual Physical Visual Visual Physical Physical Physical Physical	During m/c setting During m/c setting after stabilisation 100 % 100 % Sample Sample Sample Sample	Tech. Data Sheet / IS 7098/III Tech. Data Sheet / IS 7098/III Smooth & free from defects "DO NOT HEAT, FREELY STRIPPABLE"	Tech. Data Sheet / IS 7098/III Tech. Data Sheet / IS 7098/III IS 7098/III IS 7098/III IS 7098/III IS 7098/III IS 7098/III IS 7098/III	Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet Reg./Sheet	- - - - - - - -	P P P P P P P P	- - - - V V V V	Insulation screen shall be freely stripable, without application of heat.



**QUALITY ASSURANCE PLAN (QAP)
FOR 66 KV EHV CABLES**

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
		Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification										
		(h) Eccentricity of insulation	Minor	Physical	Sample	Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	-	P	V	
		(i) Core diameter	Minor	Physical	Sample	Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	-	P	V	
		(j) Void & contamination test for insulation (Silicon Oil test)	Major	Physical	Sample			-	-	P	V	
		(k) Water boil test for extruded semi-conducting layers	Major	Physical	1 sample/lot	BIS draft Specn	BIS draft Specn	Reg./Sheet	-	P	V	
		(l) Dimensions	Minor	Physical	Sample	Tech. Data Sheet	Tech. Data Sheet	-	-	P	-	
4	Taping - water Swellable semi-conducting	a) Dimensions b) Tape Application (Overlap)	Minor	Visual	During m/c setting	Tech. Data Sheet Suitable overlap	Tech. Data Sheet Suitable overlap	-	-	P	-	
5	Taping - Copper tape	a) Width & Thickness of tape b) Number of tapes c) Tape application (Overlap)	Major Major Minor	Physical Visual Visual	During m/c setting During m/c setting During m/c setting	Tech. Data Sheet Tech. Data Sheet Tech. Data Sheet	Tech. Data Sheet Tech. Data Sheet Tech. Data Sheet	Reg./Sheet Reg./Sheet	- -	P P	V V	
6	Laying up	a) Identification of cores b) Direction of lay, core Sequence & Lay length c) Application of binder tape d) Shape of laid up assembly	Major Major Minor	Visual Visual Visual	During m/c setting During m/c setting During m/c setting	Tech. Data Sheet IS 7098/III, P/L- W-02 Tech. Data Sheet	Tech. Data Sheet IS 7098/III, P/L- W-02 Reasonably circular	- -	- -	P P	- -	Cores shall be laidup with PP fillers & suitable tape binder shall be provided over laid up assembly
7	Inner sheath	a) Material & type b) Thickness c) Surface finish d) Colour of inner sheath	Major Major Minor Major	Visual Physical Visual Visual	During m/c setting During m/c setting & drum change 100 % 100 %	Tech. Data Sheet Tech. Data Sheet & IS 7098/III Surface shall be smooth & free from defects Tech. Data Sheet	Tech. Data Sheet Tech. Data Sheet & IS 7098/III Tech. Data Sheet	- -	- -	P P	- -	
8	Armouring	a) Dimension of armour wires/strips b) No. of armour strip/wire c) Armour coverage d) Direction of lay e) Lay length/Gear setting f) Surface finish	Major Major Minor Major Minor Major	Physical Counting Visual Visual Visual Visual	During m/c setting During m/c setting During m/c setting During m/c setting 100 %	Tech. Data Sheet Tech. Data Sheet IS 7098/III IS 7098/III IS 7098/III	Tech. Data Sheet Tech. Data Sheet IS 7098/III IS 7098/III	Reg./Sheet	-	P	V	No negative tol. on strip thickness/wire diameter
9	Outer sheath/Rewinding	a) Material & type b) Anti rodent & termite additives	Major Major	Visual Visual	During m/c setting Each loading	Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	- -	P P	- V	



QUALITY ASSURANCE PLAN (QAP)
FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification												
		b) Thickness	Major	Physical	Each length	Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	-	P	V	
		c) Overall diameter	Major	Physical	Each length	Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	-	P	V	
		d) Surface finish & colour of sheath	Major	Visual	100 %	Surface smooth & free from defects. Colour as per Tech. Data Sheet		-	-	P	-	
		e) Cable length verification	Major	Visual	Each length	Manufacturing Plan	Manufacturing Plan	-	-	P	-	
		f) Marking	Major	Visual	Each length	As per approved GTP/cross sectiona drawing		Reg./Sheet	-	P	V	
C FINAL INSPECTION												
1		a) High Voltage	Critical	Electrical	100 %	IS 7098/III	IS 7098/III	Test Report	-	P	V	
		b) Conductor Resistance	Critical	Electrical	100 %	IS 8130/84	IS 8130/84	Test Report	-	P	V	
		c) Partial Discharge	Critical	Electrical	100 %	IS 7098/III	IS 7098/III	Test Report	-	P	V	
		d) Impulse	Critical	Electrical	One sample per lot			Test Report	-	P	V	
		e) Armour Coverage	Critical	Physical	One sample per lot			Test Report	-	P	V	
		f) Physical Dimensions	Critical	Physical	One sample per lot			Test Report	-	P	V	
		g) Freely Strippable insulation screen (Strippability Test)	Major	Physical	One sample per lot	Factory Standard	Factory Standard	Test Report	-	P	V	
2		Wire Drawing	Major	Visual	100 %	Tech. Data Sheet	IS/IEC	Test Report	-	P	W	
		Extrusion process	Major	Visual	100 %	Tech. Data Sheet	IS/IEC	Test Report	-	P	W	
		Raw material inspection at factory	Major	Physical	100 %	Tech. Data Sheet	IS/IEC	Test Report	-	P	W	Stage Inspection shall be conducted subject to BSES requirement
		Wrapping of Aluminium	Major	Physical	100 %	Tech. Data Sheet	IS/IEC	Test Report	-	P	W	
		Tensile test for Aluminium	Major	Physical	100 %	Tech. Data Sheet	IS/IEC	Test Report	-	P	W	
		a) Annealing test for copper	Major	Physical	Appendix A to IS 7098/III, each lot	IS 8130/84	IS 8130/84	-	-	P	V	Verification of records.
		b) Tensile test for aluminium	Major	Physical	Appendix A to IS 7098/III, each lot	IS 8130/84	IS 8130/84	-	-	P	V	Verification of records.
		c) Wrapping test for aluminium	Major	Physical		IS 8130/84	IS 8130/84	-	-	P	V	Tests N/A on finished conductor.
		d) Conductor resistance test	Major	Electrical	Appendix A to IS 7098/III, each lot	IS 8130/84	IS 8130/84	Test Report	-	P	W	
		e) Test for thickness of insulation & sheath	Major	Physical	Appendix A to IS 7098/III, each lot	IS 7098/III & Tech. Data sheet	IS 7098/III & Tech. Data sheet	Test Report	-	P	W	
		f) Hot set test for insulation	Major	Physical		IS 7098/III	IS 7098/III	Test Report	-	P	W	



QUALITY ASSURANCE PLAN (QAP)
FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
		Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification										
		(g) Tensile strength & Elongation at break of insulation & outer sheath	Major	Physical		IS 7098/III & IS 5831/84	IS 7098/III & IS 5831/84	Test Report	-	P	W	
		h) Partial discharge test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W	
		i) High voltage test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W	
		j) Insulation resistance (Volume resistivity) test	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W	
		k) Tests for dimension of armour wires/strips	Major	Physical		IS 3975, IS 10810 Pt. 36 & Tech. Data sheet		Test Report	-	P	W	
		l) Test for anti termite & anti rodent property of outer sheath	Major	Physical		Tech. Data Sheet	Tech. Data Sheet	Reg./Sheet	-	P	W	
		m) Rewinding of cable on drum	Major	Visual		To check cable appearance, drum appearance, cable winding, packing, embossing/printing/sequential marking		Reg./Sheet	-	P	W	
		n) Void & contamination test for insulation (Silicon Oil test)	Major	Physical				Reg./Sheet	-	P	W	
		o) Water boil test for extruded semi-conducting layers	Major	Physical				Reg./Sheet	-	P	W	
		p) Freely Strippable insulation screen	Major	Physical		Factory Standard	Factory Standard	Test Report	-	P	W	
		q) Water Penetration test (WPT) on core (i.e. Logitudinal Water Blocking Test)	Major	Physical		IEC:60502	IEC:60502	Test Report	-	P	W	Test shall be conducted for leakage of water through conductor.
		r) Armour coverage	Major	Physical				Test Report	-	P	W	
		s) Ovality	Major	Physical		As per data sheet & FS	As per data sheet & FS	Test Report	-	P	W	
		t) Eccentricity	Major	Physical		As per data sheet	As per data sheet	Test Report	-	P	W	
		u) Mass & uniformity & zinc coating on armour	Major	Physical		As per data sheet & FS	As per data sheet & FS	Test Report	-	P	W	
		v) Resistivity of Strip armour	Major	Electrical		As per data sheet & FS	As per data sheet & FS	Test Report	-	P	W	
		w) Swelling height of water swellable tape	Major	Physical		As per data sheet & FS	As per data sheet & FS	Test Report	-	P	W	
		x) Flammability test	Major	Physical		As per IS-78098/III/2011	As per IS-78098/III/2011	Test Report	-	P	W	
		y) Impulse withstand test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W	

Each Lot Sample Basis



QUALITY ASSURANCE PLAN (QAP)
FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark		
									SV	MFR	BSES			
1	2	3	4	5	6	7	8	9	10	11	12	13		
		Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification												
4	Type tests at vendor's works	z2) Ageing & Water absorption test(Gravimetric) on Insulation & Outer sheath	Major	Physical		IS 5831/84	IS 5831/84	Test Report	-	P	W			
		z1) Heating Cycle with Potential	Critical	Electrical	sample basis, once per PO				Test Report	-	P	W		
		z2) Raw Material Verification in all aspects	Major	Physical	Each Lot						P	W		
		a) Tests on conductor												
		i) Annealing test for copper	Major	Physical			IS 8130/84	IS 8130/84	-	-	P	V	Verification of process records- Tests N/A on finished conductor.	
		ii) Tensile test for aluminium	Major	Physical			IS 8130/84	IS 8130/84	-	-	P	V		
		iii) Wrapping test for aluminium	Major	Physical			IS 8130/84	IS 8130/84	-	-	P	V		
		iv) Conductor resistance test	Major	Electrical			IS 8130/84	IS 8130/84	Test Report	-	P	V		
		b) Tests for armouring wires/strips												
		i) Dimensions of wire/strip	Major	Physical			IS 3975, IS 10810 Pt. 36 & Tech. Data sheet		Test Report	-	P	W		
		ii) Tensile strength & Elongation at break	Major	Physical			IS 3975	IS 3975	Test Report	-	P	W		
		iii) Torsion test for wire	Major	Physical			IS 3975	IS 3975	Test Report	-	P	W		
		iv) Winding test for strip	Major	Physical			IS 3975	IS 3975	Test Report	-	P	W		
v) Uniformity of zinc coating	Major	Chemical			IS 3975	IS 3975	Test Report	-	P	W				
vi) Mass of zinc coating	Major	Chemical			IS 3975	IS 3975	Test Report	-	P	W				
vii) Resistivity of wire/strip	Major	Electrical			IS 3975	IS 3975	Test Report	-	P	W				
c) Test for thickness of insulation & sheath	Major	Physical			IS 7098/III & Tech. Data sheet	IS 7098/III & Tech. Data sheet	Test Report	-	P	W				
d) Physical tests for insulation														
i) Tensile strength & Elongation test	Major	Physical			IS 7098/III	IS 7098/III	Test Report	-	P	W				
ii) Ageing in air oven	Major	Physical			IS 7098/III	IS 7098/III	Test Report	-	P	W				
iii) Hot set test	Major	Physical			IS 7098/III	IS 7098/III	Test Report	-	P	W				
iv) Shrinkage test	Major	Physical			IS 7098/III	IS 7098/III	Test Report	-	P	W				
v) Water absorption (gravimetric)	Major	Physical			IS 7098/III	IS 7098/III	Test Report	-	P	W				
e) Physical tests for outer sheath														
i) Tensile strength & Elongation test at break	Major	Physical			IS 5831/84	IS 5831/84	Test Report	-	P	W				
ii) Ageing in air oven	Major	Physical			IS 5831/84	IS 5831/84	Test Report	-	P	W				
iii) Shrinkage test	Major	Physical			IS 5831/84	IS 5831/84	Test Report	-	P	W				

One sample per Tender



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FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	SV	AGENCY			Remark
										MFR	BSES		
1	2	3	4	5	6	7	8	9	10	11	12	13	
		Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification											
		iv) Hot deformation test	Major	Physical		IS 5831/84	IS 5831/84	Test Report	-	P	W		
		v) Loss of mass in air oven	Major	Physical		IS 5831/84	IS 5831/84	Test Report	-	P	W		
		v) Heat shock test	Major	Physical		IS 5831/84	IS 5831/84	Test Report	-	P	W		
		vi) Thermal stability test	Major	Physical		IS 5831/84	IS 5831/84	Test Report	-	P	W		
		f) Electrical tests in sequence	Critical	Electrical									
		i) Partial discharge test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		ii) Bending test	Major	Physical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		iii) Partial discharge test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		iv) Dielectric power factor as a function of voltage	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		v) Dielectric power factor as a function of temperature	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		vi) Heating cycle test	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		vii) Dielectric power factor as a function of voltage	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		viii) Partial discharge test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		ix) Impulse withstand test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		x) High voltage test	Critical	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		g) Insulation resistance (Volume resistivity test)	Major	Electrical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
		h) Flammability test	Major	Physical		IS 7098/III	IS 7098/III	Test Report	-	P	W		
D PACKING & MARKING													
1	Packing & Marking	a) Cable end sealing	Major	Visual	100 %	IS 7098/III/ Agreement	IS 7098/III/ Agreement	-	-	P	W/V	BSES representative may	
		b) Pulling eye at leading end- removed from vendor scope, end cap shall be provided at both the end of cable	Major	Visual	100 %	As per agreement	As per agreement	-	-	P	W/V	Verify these characteristics on randomly selected drums.	
		b) Stencilling/Marking on drum	Minor	Visual	100 %	IS 7098/Part 2),2011/ Agreement	IS 7098/Part 2),2011/ Agreement	-	-	P	V		



QUALITY ASSURANCE PLAN (QAP)

FOR 66 KV EHV CABLES

S. NO.	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			Remark
									SV	MFR	BSES	
1	2	3	4	5	6	7	8	9	10	11	12	13
Legend : SV : Sub-Vendor of Cable Manufacturer, MFR : Cable Manufacturer, MPS : Material Purchase Specification, P : Perform, W : Witness, V : Verification												

- Note**
- Checks specified above for Raw Material, In-Process and Final Inspection shall be as relevant to the specific cable construction.
 - Number of samples shall be selected as per Factory Standard/Agreement wherever "sample" is indicated for extent of check.
 - Plant standards shall be followed in case "Technical Data Sheet does not include requirements for characteristics to be checked.
 - BSES may witness Raw material and in process inspection in addition to Routine/Acceptance tests at any time/stage of manufacturing.
 - BSES's Inspector may randomly select a cable drum for type testing at vendor's works.
 - For each of the offered lot for inspection, BSES may randomly select one cable drum for testing of end cap "Destructive testing" to verify adhesion of sealing cap to cable outer sheath.
 - All factory Type Tests shall be Witnessed by BSES

Annexure- G**Testing and manufacturing process requirements w. r. t. TR- XLPE insulation**

All cables made with TR-XLPE Insulation should be tested and/or certified to meet the following performance parameters as per ANSI /ICEA S-94-649 after one year AWTT.

Property	Units	Requirements Values
Min. Avg. Electrical Breakdown Strength(qual. test)	kV/mm	≥ 25
Impulse Strength	kV/mm	> 83
Water Tree Length	Mm	0.25
Max. Bowtie Tree Density	(Number per 16.4 cu. cm)	Maximum 15 (0.12-0.25 mm range)

Manufacturing processes to produce high-quality cables with the following characteristics:

- Cure consistency with hot set/creep less than 100%
- No voids larger than 75 microns per 16.4 cubic cm
- No ambers larger than 250 microns per 16.4 cubic cm
- No contaminants larger than 125 microns and less than 5 between 50-125 microns per cubic 16.4 cubic cm tested.
- Neutral indent on cable is less than 375 microns
- Cable insulation concentricity greater than 90% tested
- No protrusions greater than 75 microns at the conductor shield and 125 microns at the insulation shield

Annexure-H: Deviation Format

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