



BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT DIVISION
VIKASNAGAR, HYDERABAD - 500 093, INDIA

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ENQUIRY

Ref: 432001091

Date 20-11-2020

Enquiry for **600 kVA,415V,3 Phase + N Online UPS & LIB batteries**

Enquiry No:432001091 Enquiry Date : 20-11-2020 Due Date: 12-12-2020 Indicative Delivery Date : 27-02-2021

Sl.No	Item Description	Unit	Qty
1	1x600 kVA, 415V, 3 phase+N Online UPS and Lithium Ion Batteries battery bank for minimum 15 min back uptime with all accessories.	LOT	1
2	Supply of Air conditioners for UPS room with 100% redundancy	LOT	1
3	Erection and commissioning of UPS with batteries and Air conditioners in UPS room	LOT	1

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, PQC, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

Devsingh Vankudothu
Manager
devsingh@bhel.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) 1x600 kVA, 415V, 3 phase+N Online UPS and Lithium Ion Batteries battery bank for minimum 15 min back uptime with all accessories. - 1 LOT 2) Supply of Air conditioners for UPS room with 100% redundancy - 1 LOT 3) Erection and commissioning of UPS with batteries and Air conditioners in UPS room - 1 LOT
3	Enquiry Reference no.	432001091
4	Indicative Delivery Date	27-02-2021
5	Due date, Time and place for submission of tender	12-12-2020 upto 12 noon. Sealed Quotations shall be addressed to Additional General Manager(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 12-12-2020, 2 PM
		Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1) First Cover shall contain: a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid)as per annexure 2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure.

7	Mode of Submission of Tender	If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words. The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE, JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'rnd-eoffers@bhel.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered. The e-mail offers should have two attachments. 1) One attachment shall contain a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid), as per annexure 2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc as per annexure. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.
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	PRE QUALIFYING CRITERIA(PQC)	Volume - 1 Enquiry No 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Prior Experience	1) Vendor whoever is participating shall produce “Authorization letter from OEMs for technical support and warranty” against the BHEL enquiry during supply, installation, commissioning and warranty along with technical offer. 2) Vendor or his OEM must have supplied at least 1x 300 KVA UPS along with Lithium Ion Batteries (LIB) or 300 KVA UPS with any other make LIB batteries by OEM of UPS and 300 KVA LIB batteries with any other make of UPS by OEM of LIB batteries in the last 2 years from the date of enquiry. 3) In case of integrator, he must have successfully executed at least 1x300 kVA UPS with any other battery technology in the last 2 years from the date of enquiry, provided he gets an authorization letter from OEM of UPS and batteries agreed for above clauses 1&2.	
2	Proof of documents	Supporting documents for the above shall be furnished (PO, work completion certificate/successful operation certificate issued in the name of bidder or his OEM.	
3	Independent verification	1) BHEL reserves the right to verify the same independently. Vendor shall give the contact details of the customer (name, designation, company, email ID, phone no and address). 2) Vendor shall give the contact details of the customer who are willing to confirm the facts on verification by BHEL. 3) In case of no confirmation from customer, it will call for rejection of the offer.	
4			
	The condition of Prior Turnover and		

	Relaxation of Norms for Startups	prior experience is relaxed for all startups whether Micro & Small Enterprises(MSEs) or otherwise subject to meeting of quality and technical specifications in accordance with the relevant provision of GFR,2005 and other DOE-PPD notifications for relaxation norms for startups issued from time to time.	
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Signature of the bidder with Seal & Date

	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

SL.No.	Clause	BHEL REQUIREMENT
1	Preference to Make in India	For this procurement, the local content to categorize a supplier as a Class 1 Local supplier / Class 1 Local supplier/ Non-Local supplier and purchase preference to Class 1 Local supplier, is as defined in Public Procurement (preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT
2	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
3	Discrepancy in words and figures	(a) If, in the price structure quoted for the required goods/ Services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly. (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and (c). If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above. (d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
4	Two Part bid clarifications	In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
5	Price Impacts	In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid

		opening. Unsolicited price impacts will not be considered.
6	Packing	The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit.
7	Withdrawal	In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
8	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
9	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com . Guidelines for suspension of business dealings with suppliers/contractors are available on www.bhel.com under supplier registration page
10	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
11	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
12	Arbitration	Subject to the exclusive jurisdiction of the Medchal, Malkajgiri Courts, Telengana State , India , in respect of any suit or other legal proceedings relating to this contract.
13	Fraud Prevention Policy	The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
14	Signing & Stamping	Documents of BHEL's all Terms and conditions submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Documents submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Read and agreed for all the above general terms and conditions

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Payment terms for Indian Offers	Vendor to indicate appropriate applicable HSN code for Goods as well as SAC for services based on Inter/Intra state. In case the bidder has opted for composite GST scheme, the same may be stated explicitly in both and techno-Commercial & Price bids. BHEL will pay only basic price to the vendor and release the GST payment only when the proof of remittance is given.	
2	Reverse Auction	BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.	
3	Weight and Packing Dimensions.	The Supplier shall indicate the shipping weight (Kgs) and dimensions (L x W x H in cms) clearly along with offer.	
4	Validity of Offer	90 days from date of techno-commercial bid opening.	
5	Rate Contract	In case the goods enquired are on Rate Contract basis with any other unit of BHEL, such fact should be clearly indicated in the quotation giving full particulars of Rate Contract number, validity and price and also your willingness to comply with order if placed against such Rate	

		Contract. A copy of Rate contract signed by the supplier should be sent with the quotation.	
6	Nature of Vendor submitting the Offer	OEM / Agent / Representative / Dealer / Distributor / Stockist / Trader / Reseller / Channel Partner/ System Integrator / Any Other (Pl. Specify)	

Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal **only shall be considered**. Any other Commercial terms & conditions of bidders entered else where in their offer shall not be considered and are liable for rejection.

Read and understood the above commercial terms and conditions

Signature of the bidder with Seal & Date

	OTHER TERMS & CONDITIONS	Volume - 1 Enquiry No 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Destination	Destination shall be Stores,BHEL R&D,Vikasnagar, Hyderabad-500093.	
2	Details are required	PAN Number: GSTIN Registration Status: GSTIN No: GSTIN No. Issuance Date : Provisional/ Final Registration : Name of the Contact Person : Contact Phone / Mobile : Email id for correspondence : Address with PIN code and State:	
3	Special Note	Taxes and duties to be governed by GST acts. Strict adherence to new provisions by the vendors like timely submission of invoices, tax payment, filing of returns-GSTR-I etc. will form base of new regime for release of payment from BHEL. Hence, any financial loss occurred due to non-compliance of the GST provisions would be endured at defaulters end	
4	Force Majeure clause	If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of	

		time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the events, if required with supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries	
5	Concessional Taxes/Duties	Concessional taxes/duties: We are registered with DSIR vide TUV-RD/13/2017 dated 05-Feb-2018 as a research Institution, other than a Hospital, for the purpose of availing Customs duty exemption in terms of Government Notification no.51/96 – Customs dated 23-Jul-1996, Notification No. 24/2007 - Customs dated 01-Mar-2007 and Notification No. 43/2017 – Customs dated 30-June-2017; 45/2017-Central tax(rate) & 47/2017-Integrated tax(rate) dated 14-11-2017, No. 9/2018-Central tax (Rate) dated 25-01-2018, State & Union Territory Tax(Rate) and 10/2018-Integrated tax(Rate) dated 25-01-2018 as amended from time to time. Hence all offers falling under the said notifications shall be evaluated at available concessional rates. Please confirm acceptance	
6	Price basis	The prices shall be firm for entire period of contract. all Indian suppliers shall quote the lowest prices on 'free delivery at BHEL R&D Stores or F.O.R destination' basis only	
7	Price and unprice bid format	Price bid and unpriced bid format are enclosed ref Annexure -II & III	
8	Applicable Taxes/Duties	Please indicate the applicable Taxes/Duties in the offer clearly.	
		1 Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. Penalty will be considered separately for 'Supply' and 'E&C'.The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total	

9	Late Delivery Penalty Clause for Supply & E	PO value (Supply +E&C) in supply subject to a maximum of 10% of total PO value (Supply+E&C).The rate penalty for delayed E&C shall be @0.5% per week of delay of total PO Value (Supply+E&C) in E&C subject to a maximum of 10% of total PO value (Supply+E&C). Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply+E&C). The Penalty amount determined based on the delay in supply/services along with applicable taxes/duties thereon shall be recovered. 2. For the purpose of penalty for delay in E&C of the equipment, the duration for stipulated delivery period shall be reckoned from the date of intimation by BHEL to vendor for readiness of site. 3 Loading on account of no acceptance of Penalty for delayed Supply and /or E&C shall be as under: In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder. 4 Incase, any shortage is noticed viz-a-viz PO requirement in the main equipment, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL	
10	Payment terms Supply and EC	Full payment of total PO value i.e. 100% basic value of Supply value plus 100% of the E&C portions shall be made within 30 days against satisfactory completion of erection,Commissioning etc. issued by BHEL Engineer and Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period with an additional claim period of 3 months by Supplier from any of the Consortium Banks of BHEL for 15% of total PO Value (Supply & E&C) in the prescribed Format. The PBG confirmation charges shall be borne by vendor Note: In case of Indian Suppliers - GST taxes subject to payment proof	

		of GST taxes remittance to Govt. of India. For other payment terms there will be a loading on the offer as mentioned in our 'Loading Factors' sheet which is enclosed to this enquiry.	
11	Performance Bank Guarantee (PBG)	PBG of 15% of total PO value (Supply and E&C Value) is to be submitted by the successful vendor and shall be kept valid for 30 days beyond warranty period with additional claim period of 3 months thereafter.	
12	Contact Details for technical clarification :	Mr. K Ravi Kumar Sr. Engineer (EMV) BHEL, Corp. R&D Email : k.ravikumar@bhel.in Mobile : 8019092015	
13	Price bid evaluation	All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, Loading due to non-acceptance of our standard commercial terms will be evaluated as per the LOADING FACTORS form as enclosed along with the enquiry	

Signature of the bidder with Seal & Date

	ITEM SPECIFICATIONS	Volume - 2 Enquiry NO 432001091
600 kVA,415V,3 Phase + N Online UPS & LIB batteries		

SL.No.	Item			
1	1x600 kVA, 415V, 3 phase+N Online UPS and Lithium Ion Batteries battery bank for minimum 15 min back uptime with all accessories.			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	1x600 KVA, 415V, 3 phase+N Online UPS with accessories	Specifications as per attached Annexure-1	
	2	LIB battery bank for minimum 15 min back uptime with accessories	Specifications as per attached Annexure-1	
		Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.	
		Accessories	Offer shall include all the accessories required for normal operation of equipment.	
2	Supply of Air conditioners for UPS room with 100% redundancy			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Supply of Air conditioners for UPS room with 100% redundancy	Specifications as per attached Annexure-1	
		Accessories	Offer shall include all the accessories required for normal operation of equipment.	
3	Erection and commissioning of UPS with batteries and Air conditioners in UPS room			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Erection and commissioning of UPS with batteries and	Specifications as per attached Annexure-1	

	Airconditioners in UPS room		
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* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date

LOADING FACTORS



NOTE : IN CASE OF DEVIATION TO BHEL TENDER SPECIFIED TERMS, LOADING FACTOR INDICATED IN FOLLOWING TABLE WILL BE APPLIED TO QUOTED PRICE WHILE EVALUATING THE LOWEST QUOTE

A. FOR INDIGENOUS PURCHASES					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
A.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R&D	SAME	NIL
				PAYMENT AGAINST PROFORMA INVOICE / DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE TOTAL PO VALUE FOR ONE MONTH
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH
A.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AND BALANCE 10% WITH IN 30 DAYS OF COMPLETION OF E&C.	SAME	NIL
				100% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF SUPPLIES AND E&C	NIL
				90% PAYMENT AGAINST PROFORMA INVOICE/ DESPATCH DOCUMENT AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C.	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON 90% OF THE VALUE OF PO FOR ONE MONTH
				90% PAYMENT AGAINST PROFORMA / DESPATCH DOCUMENT AND BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON TOTAL VALUE OF THE PO FOR ONE MONTH
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE AND (90 -X) % PAYMENT ON RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%)FOR THE DELIVERY PERIOD(ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% AMOUNT FOR ONE MONTH
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE AND BALANCE (90 - X) % PAYMENT AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%)FOR THE DELIVERY PERIOD(ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH

B. FOR FOREIGN PURCHASES (IMPORTED)					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
B.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT BY WIRE TRANSFER WITHIN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R&D. (DESPATCH DOCUMENTS WILL BE SENT TO BHEL R&D DIRECTLY ALONG WITH BANK DETAILS)	SAME	NIL
				SIGHT DRAFT ON PRESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				LC PAYMENT AGAINST DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE BY WIRE TRANSFER/LC AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY (ROUNDED OFF TO NEAREST MONTH) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE BY WIRE TRANSFER/LC AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO NEAREST MONTH) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
B.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT BY WIRE TRANSFER WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	SAME	NIL
				SIGHT DRAFT ON PRESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL
				90 PAYMENT BY WIRE TRANSFER /LC AGAINST DESPATCH DOCUMENTS BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% PAYMENT BY WIRE TRANSFER / LC AGAINST DESPATCH DOCUMENTS. BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				90% OF BASIC VALUE AS ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARNTTEE AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE BY WIRE TRANSFER/LC AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+6%) ON 90% OF THE BASIC VALUE FOR DELIVERY PERIOD (ROUNDED OFF TO NEAREST MONTH) + ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE BY WIRE TRANSFER/LC AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO NEAREST MONTH) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE (90-X)% FOR ONE MONTH
				INTEREST BEARING PART ADVANCE (MAXIMUM 5% @SBI BASE RATE ON TENDER OPENING DATE+ 6%) PAYMENT WITH 110% BANK GUARANTEE BY WIRE TRANSFER/LC AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO NEAREST MONTH) + ONE MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6%) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH

C. PENALTY FOR DELAYED DELIVERY (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
C	LD CLAUSE	IN THE EVENT OF DELAY IN AGREED CONTRACTUAL DELIVERY, PENALTY OF 0.5% (HALF PERCENT) PER WEEK BUT LIMITED TO A MAX OF 10% OF TOTAL ORDER VALUE WILL BE APPLICABLE	AGREED	NIL
			IF NOT AGREED	LOADING @ 10% OF THE BASIC MATERIAL COST
			IF AGREED FOR X%	LOADING @ (10-X)% OF THE BASIC MATERIAL COST
D. GUARANTEE/WARRANTY PERIOD (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
D	GUARANTEE/WARRANTY PERIOD	STIPULATED OR REQUIRED GUARANTEE/ WARRANTY PERIOD(X)	AGREED	NIL
		MINIMUM ACCEPTABLE GUARANTEE / WARRANTY PERIOD(Y)	NOT AGREED FOR STIPULATED BUT AGREED FOR MINIMUM GUARANTEE/WARRANTY(Y)	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

Terms & Conditions of Reverse Auction



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

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit online sealed bid in the Reverse Auction. Non-submission of online sealed bid by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g. EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL standard practice.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS

(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)	
------------------------------------	--

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :
Company
Seal

Authorised Signatory
Designation :



RD:MPX:F-13

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:Fax No.:Email: 1.

2.

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:Fax No.:Email:Contact Person:Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER (Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be enclosed and tick the following:

Type of Major Activity: Manufacturing / Service

Category of Enterprise: Micro / Small / Medium

Social Category : GENERAL / SC / ST / OBC

Udyog Adhaar Number (UAN): _____

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

4.1 Bank Name

4.2 Branch name

4.3 Account number

4.4 Account Type

4.5 MICR Code:

4.6 IFSC Code(RTGS/NEFT):

4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

5.1 IT Permanent Account No.(PAN):

5.2 State Sales Tax/VAT Registration No:

5.3 Central Sales Tax Registration No:

5.4 ED Registration No:

5.5 Service Tax Registration No:

5.6 PF Account No:

5.7 Labour Licence No:

5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

--	--	--	--	--

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		
3		
4		
5		

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :**DECLARATION:**

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention “N.A.” for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR. WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE". INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S) FOR PRODUCT OFFERED

NAME(S) :
 OFFICIAL :
 CPACITY :
 ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING
 SPECIFICATION AND RANGE OFFERED
 FOR REGISTRTION
 (Attach brouchers and catalogues)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY
 WITH AUTHORIZATION LETTER

2.0 FINANCIAL INFORMATION:

2.1 TOTAL CAPACITY

2.2 ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 WHEHER CREDIT LICENSE ACCEPTABLE YES/NO

3.0 QUALITY MANAGEMENT SYSTEMS

ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/ SIMILAR ITEMS
 TO BE ENCLOSED

4.0 FUTURE EXPANSION PLANS:

(Give details)

5.0 LIST OF ENCLOSURES:

(Including brouchers, catalogues, technical literature etc)

6.0 ANY OTHER INFORMATION:

SIGNATURE OF SUPPLIER (Authorized signatory)

NAME :
DESIGNATION :
DATE :
OFFICIAL SEAL

Note:

1. BHEL Reserves the right to take penal action as deemed fit if any of the information provided by the vendor is found to be incorrect.
2. Please attach separate sheets, if space found is inadequate



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

RD:MPX:F-13

Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevent authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.

Annexure-I
Specifications of 1X600 KVA 3 phase online UPS with LIB batteries and compliance sheet
Corporate R&D, Bharat Heavy Electrical Ltd, Hyderabad.

	BHARAT HEAVY ELECTRICAL LTD	Enquiry No. :	
	Corporate Research and Development	Due Date :	
	Vikasnagar, Balanagar	Supplier Qtn. No.:	
	Hyderabad-500093		
	Telangana, India	Date :	
SPECIFICATION CUM COMPLIANCE FOR 1 X 600kVA ONLINE UPS WITH LIB BATTERIES AT BHEL CORP R&D, HYDERABAD, TELANGANA.			
	NAME & ADDRESS OF THE SUPPLIER :		
	CONTACT PERSON:		
	TELEPHONE NOS.:		
	FAX NOS.:		
	E-MAIL ADDRESS :		

NOTE:-

1	The "Acceptance" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the
2	The offer and all documents enclosed with offer should be in English language only.
3	All the standard fittings and accessories are in the vendor scope.
4	The Equipment and services to be furnished under this contract are detailed here under for reference. The items, though not specifically mentioned but required
5	Cable termination and connection to UPS at Input and Output of the UPS are in vendor scope.
6	All the parts and labour required for successful operation of the UPS and batteries during warranty period is in vendor scope. No additional parts will be provided
7	Vendor has to quote the prices as per the given price bid format. Unpriced bid format with tax rates are to submitted along with technical offer
8	Vendor has to submit the SLD for the synchronisation panel along with technical bid

SL.No	Descriptions	BHEL Specifications	Vendor Acceptance/Remarks/Deviation
I	UPS		
A	Project Specific Data		
1	Project Site / Location	BHEL Corporate R&D, Vikas nagar, Balanagar, Hyderabad-500093	
2	UPS Rating	600 kVA , 0.9PF	
3	Quantity	1 No	
4	Installation	Indoor, ventilated and dust free	
5	UPS room Ambient temperature	Up to 40 Deg C	
6	Application /type of load	Critical Test facility - Dynamic industrial type loads	
7	Input Supply	3phase +N, 4 wire, 415V, +/- 10%, 50Hz, +/- 5% System neutral solidly earthed	
8	Input supply system fault level	50 kA	
9	Input transformer capacity	Transformer less UPS is required to avoid losses (As 1000 kVA , 11kV/433V BHEL Installed transformer with OLTC located just next to UPS room)	
10	Output Supply from UPS	3phase+N, 4 wire, 415V +/-1% , 50Hz.	
B	Standards		
1	Design	IEC 62040	
2	Safety	IEC-62040-1	
3	EMC / RFI	IEC 62040-2	
4	Performance	IEC 62040-3	
5	Manufacturing facility Process	ISO 9001 certified	
C	UPS General Specification		
1	UPS Design & Topology	Static , transformer less UPS Online double conversion (Voltage frequency Independent) topology UPS to deliver 100% continuous quality power to connected critical loads	
2	Make and model	Vendor to specify	
3	UPS capacity rating	600 kVA, 415 V, 3Ø+N (4wire) - at 40 Deg C	
4	UPS design PF - Load	0.9, 540 kW	
5	Controller technology	Digital Signal processing controller	
6	Inverter / rectifier technology	Advanced IGBT based three level power conversion	

7	Overall efficiency (input to output)	≥ 95% from 40% load and more in higher loads , to be tested and proven during Factory Acceptance Test (FAT) at vendor works.	
	Efficiency at 50% load	Vendor to specify	
	Efficiency at 75% load	Vendor to specify	
	Efficiency at 100% load	Vendor to specify	
8	Cable entry	Inlet and outlet Cable junction box to be provided by vendor. BHEL will provide input cable through trench. Vendor shall suitably select the cable entry.	
9	Surge protection	Modular type II surge protection is required inside UPS	
10	Cooling	Forced Air with Fans on top	
11	Operating temperature	15 to 40 degC without UPS capacity derating	
12	Relative humidity	10 - 90% noncondensing	
13	Altitude	1000 m without derating as min	
14	Acoustic Noise level at 1 m (ISO 3746 or equivalent)	≤76 dB A	
15	Warranty on UPS	1) 66 months from date of supply or 60 months from date of commissioning whichever is earlier. 2) Warranty shall be onsite for including all parts and labour. 3) Warranty shall be supported by OEM in case of dealers are participating. 4) OEM authorisation letter shall be submitted along with the technical offer both for partnership/dealership and warranty.	
D	UPS Input specifications		
1	Input voltage 3PH	415V ±10%, 3 Ph. 4 wire	
2	Input frequency	50 Hz +/- 5 Hz	
3	Input Power factor from 50% to 100% load	0.99 minimum with IGBT rectifier technology without additional filter	
5	Input Source:	Mains and Local DG Set Compatibility required	
6	Input Phase sequence	UPS rectifier shall detect reverse Input phase sequence and alert user	
E	UPS output specifications		
1	Nominal rating of UPS	600 kVA, 540 kW , 0.9 PF , continuous duty	
2	Power factor	To handle power factor from 0.8 PF lagging to 0.8 leading	
3	Output Voltage (3PH)	3ph- 4 Wire 380/ 400/ 415V selectable	
4	Static output voltage variation	+1%	

5	Dynamic Output voltage variation 100% step load	2%, Recovery within 20 ms	
6	Output wave form	Pure Sinusoidal	
7	Output voltage variation at 100% balanced load	+/-1%	
8	Output voltage variation at 100% unbalanced load	+/-2%	
9	Unbalanced load capability	Suitable for 100% unbalance loads	
10	Phase displacement at 100% Balance load	120 Deg +1 Deg	
11	Phase displacement at 100% unbalance load	120 Deg +3 Deg	
12	Output frequency	50Hz	
13	Frequency regulation	±0.01% in free running mode (battery operation or bypass asynchronous mode)	
14	Frequency Sync range	±1% to ± 5% (selectable in 1% increments) .	
15	Load Power factor	Customer load PF is 0.8 to 1.0	
16	Total output voltage distortion	for linear load <1% and for non linear load <5%	
17	Overload capacity For 10 minutes	125% at 40 Deg C	
18	Overload capacity For 60 Seconds	150% at 40 Deg C	
19	Crest factor	Crest Factor:3:1 (complying with IEC 62040-3)	
F	Bypass Characteristics		
1	Type	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	
2	Rated voltage	415VAC +/-10%	
3	Nominal Frequency	50Hz +/- 5%	
4	Short circuit withstand capacity	1000% for 20ms	
5	Manual bypass	The UPS should have a Built-in Automatic Bypass transfer to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	

G	Protection, Control & monitoring		
1	Protection requirement	DC Under voltage	
		Battery charging current limit	
		Battery Deep discharge	
		AC Input under voltage	
		AC Input overvoltage	
		AC Input Output voltage	
		AC Input Output overvoltage	
		Output Overload	
		Output Short circuit	
		AC Input current limit	
		Surge arrestor	
		Detection circuit shall be provided for back feed protection	
		Degree of protection: IP 20 or better (according to IEC 60529)	
2	LED Indication requirements	Mains ON	
		Invertor ON	
		UPS ON	
		Battery	
		Low Battery	
		Invertor trip	
		O/P Overload	
		Emergency Power off push button required in front panel with cover	
3	LCD display requirements	DC Voltage	
		Output voltage	
		Output current	
		Load %	
		Frequency	
		State of charge of Battery (SoC)& Battery Voltage and charging /discharging current	
		Output power (O/P)	
		Graphical touch screen	

4	Power Management Software	The UPS should have Power management software and interface cable, RS 232 interface, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyse power conditions with voltage logging, Should support Linux & Windows (Windows 7, Windows 8 and windows 10) operating systems.	
5	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	
II	Batteries		
1	Battery type	LIB	
		One cycle: Charging battery to 100 % state of charge (SoC) and discharging to specified depth of discharge (DoD)	
		Make and model of batteries shall be provided by vendor (Batteries shall be of reputed make with significant installation references	
2	Battery Parameters required	Number of Cycles > 3000 @ 70% DoD	
		Number of Cycles > 4000 @ 50% DoD	
		Minimum float Design life > 10 years and service life of 10 years	
		Battery charge-discharge efficiency >90%	
3	Back up duration time at end of life	Minimum 15 mins at end cell voltage at the start of life and min 10 mins at the end of life backup shall be provided for full load for 80% DOD. Ageing and design factors to be considered for this requirement as per batteries OEM/manufacturing standard. Battery sizing calculation from OEM to be submitted along with technical offer. If vendor calculates the battery capacity < 160 kWh then vendor shall offer minimum 160 kWh. If vendor calculates the battery capacity > 160 kWh then vendor shall offer calculated kWh.	

4	Battery Management	LIB system should have integrated battery monitoring system to monitor Individual cell voltage, temperature and manage cell balance. Charge limit voltage ,Discharge limit voltage, Charge Limit Current ,Under voltage alarm, Battery over temperature (alarm),Battery over current Charge alarm, Battery over current discharge alarm, Short Circuit Protection.	
5	Battery breaker in a cabinet	Suitable rated DC breaker (designed for maximum DC discharge current & maximum DC voltage of UPS bus) in a floor standing enclosure with necessary cable termination arrangement. DC MCCB Datasheet confirming DC voltage and current to be submitted with Bid - Reputed makes shall be considered	
6	Minimum warranty required for batteries	1) 66 months from date of supply or 60 months from date of commissioning which ever is earlier. 2) Warranty shall be onsite for all parts and labour. 3) Warranty shall be supported by OEM in case of dealers are participating. 4) OEM authorisation letter shall be submitted along with the technical offer both for partnership/dealership and warranty.	
7	Number of batteries and rating	Vendor has to specify the kWhr of batteries to be used in UPS system to ensure 600 kVA output load with 0.9 power factor- Backup has to be tested at site and demonstrated.	
8	Cost of batteries	Cost of batteries shall be quoted separately in the price bid (Note: shall be quoted as per the attached price bid format)	
9	Standards	Certification: Transportation UN 38.3, safety: UL-1642 or UL1973,	
10	HVIL protection	HVIL protection	
11	Smoke detection	Smoke sensor will output alarm signal when smoke is happened	
12	Use separated discharging and charging contactor	Two separated contactors (discharge and charge contactor) to ensure the stability of charge and discharge	
13	Allowed single string failure	Battery system allowed single string failure at least	
III	Input and output connections		
1	Provision for connecting Input and Output cable to UPS	Vendor shall provide the provision for connecting 5 runs of 3.5 cores, 300 sq.mm Aluminium armoured cable for input as well as output in the UPS panel. However, BHEL will provide the cable.	

2	Input and Output cable terminations at the UPS connection	Cable terminations of incoming and outgoing cables (which will be provided by BHEL) at input and output terminals in UPS panel shall be in the bidder scope. Vendor shall consider the cable terminations for INPUT and OUTPUT of UPS as per the above cable sizes and runs.	
IV	Air Conditioning		
1	Thermal load for UPS room (both for batteries and UPS)	Vendor has to give detailed calculations for thermal load due to operation of UPS and battery bank for full load. (Both UPS and battery bank shall be in same room). Vendor has to give the sizing calculations of Air conditioners for the above calculated load.	
2	Air conditioners for UPS room	Vendor has to supply the sufficient air conditioners (4 star or higher rated inverter AC's with 100% redundancy) to maintain the UPS room temperature <=25 degC.	
3	Automatic Timer for operation of AC's	Vendor has to supply a reputed make Automated timer for operating the ACs and switch over to other set based on the set time.	
4	Warranty	1) 66 months from date of supply or 60 months from date of commissioning which ever is earlier. 2) Warranty shall be onsite including all parts and labour. 3) Warranty shall be supported by OEM of ACs or the bidder.	
V	Erection and Commissioning		
1	Erection and commissioning (E&C)	The vendor has complete the erection & commissioning of system within 15 days after site readiness information is communicated from BHEL	
2	E & C charges if any	Charges of E&C shall be quoted separately (Note: shall be quoted as per the attached price bid format).	
3	Dimensions of the room for batteries and UPS	The room dimensions (wall to wall) are: LxBXH: 5.5x4.5x3.3 m	
4	Support/ supplies required from BHEL	Vendor shall explicitly bring out the BHEL scope in successful commissioning of the UPS apart from the scope mentioned in this specification. However the prime responsibility of the successful commissioning is in supplier scope.	
5	Site visit before offer submission	Supplier can visit the site before offer submission for any clarification and estimation	

6	Battery backup time test at site	Battery backup test shall be conducted by the supplier at the site after E&C. Only after the successful demonstration of the backup test E&C will be deemed as complete. Backup test shall conducted by vendor by arranging necessary load banks. The back up test charges shall be part of E&C.	
VI	General requirements		
1	Delivery period after placement of PO	Required delivery period for supply of all items to BHEL R&D site within 12 weeks from the date of placement of order (PO). Part delivery shall not be accepted. However, while evaluating the offers, those offers which are not conforming the requested delivery, COMMERCIAL LOADING @0.5% of the quoted value per week will be done for the EXTRA PERIOD requested. Commercial loading on the offered price will be done during evaluation of the offers.	
2	Factory Acceptance Test (FAT)	QAP to be submitted for predispach and Factory Acceptance Test (FAT) for both batteries and UPS for integration and performance. BHEL may witness the FAT. Supplier shall intimate for FAT 20 days in advance for BHEL to plan the visit in case if BHEL wants to witness.	
4	Manufacture certificate	The vendor has to provide the OEM manufacturing test certificates for the bought out items, batteries and UPS.	
5	OEM Authorisation certificate	In case of reseller/distributor is offering, One shall submit the OEM authorisation certificate along with technical bid, otherwise offer will be treated as incomplete and is liable for rejection. If UPS vendor participates in tender he has to submit the OEM authorisation from battery supplier for supply and support against the given enquiry and given warranty. If Battery vendor participates in tender, he has to submit the OEM authorisation from UPS supplier for supply and support against the given enquiry and warranty. However the whole responsibility of the system and warranty lies with the bidder.	

6	Supply of accessories	The vendor is responsible for supply of all the accessories required like connecting cables, battery rack stand etc. Applicable charges may be quoted along with the equipment. (Note: All the list and quantity of accessories shall be submitted along with technical offer).	
8	Completeness of Bid	Any deviation or incomplete information shall be treated as incomplete bid and offer is liable for rejection.	

VII	Documents to be submitted by vendor along with technical offer		
1		Battery capacity calculation sheet (detailed) as approved by OEM	
2		Agreement with OEM of batteries for support and warranty (letter shall reflect the BHEL enquiry no)	
3		Agreement with OEM of UPS for support and warranty (letter shall reflect the BHEL enquiry no)	
4		GA drawing for UPS and battery bank	
5		Reference PO for PQC and successful installation completion certificate	
6		Customer contact details (Name, designation, company, email, Phone no and address) for PQC verification.	
7		Un priced bid format (signed)	
8		BOM of the UPS and battery bank	
9		HSN/SAC Codes for the supply and service codes for E&C	
10		Any additional requirements from BHEL during E&C	
11		Thermal Load for UPS room and AC (Tonnes of refrigeration) calculation sheet	

Annexure –II**Enquiry No 432001091 dated 20.11.2020 for 600KVA,415V,3 PHASE+N On line UPS and LIB Batteries -Un price bid format**

Sl.No.	Item	HSN/SAC code	Quantity (A)	Unit	Currency	Unit rate (B)	Basic price (C= AxB)	#GST rate in % (D)	Total Tax (E=CxD)	Total price including Tax (F=C+E)
1	600 KVA UPS and LIB batteries with all accessories		1	Lot	INR	Quoted	Quoted	5%	Quoted	Quoted
2	Supply of Air conditioners with 100% redundancy (double the capacity of heat load)		1	Lot	INR	Quoted	Quoted	5%	Quoted	Quoted
3	Erection and commissioning of UPS with batteries and Air conditioners in UPS room		1	Lot	INR	Quoted	Quoted	18%	Quoted	Quoted
Total (1+2+3)										Quoted

Notes:

1. Delivery at BHEL R&D Stores, Hyderabad.
2. HSN codes for all the items to be provided
3. For battery bank sizing in kWh, OEM authorised calculation sheet shall be submitted along with the offer
4. As this procurement is under DSIR, a concessional GST (%) certificate will be issued to the vendor before dispatch, for the supply scope of items vendor shall agree and quote with 5% GST .
5. For E&C, vendor shall give the normal GST rate whatever is applicable.
6. Accessories like control cables, cable terminations, cable joints, fuse, relays, battery stand and any tools shall be provided which are required for normal trouble free operation of the UPS for 5 years.
7. Vendor shall give the list of accessories which the vendor is going to offer with name and quantity in a tabular form along with technical bid.

Authorized Signatory (stamp & signature)

Annexure –III**Enquiry No 432001091 dated 20.11.2020 for 600KVA,415V,3 PHASE+N On line UPS and LIB Batteries -Price bid format**

Sl.No.	Item	HSN/SAC code	Quantity (A)	Unit	Currency	Unit rate (B)	Basic price (C= AxB)	# GST rate in % (D)	Total Tax (E=CxD)	Total price including Tax (F=C+E)
1	600 KVA UPS and LIB batteries with all accessories		1	Lot	INR			5%		
2	Supply of Air conditioners with 100% redundancy (double the capacity of heat load)		1	Lot	INR			5%		
3	Erection and commissioning of UPS with batteries and Air conditioners in UPS room		1	Lot	INR			18%		
Total (1+2+3)										

Notes:

1. Delivery at BHEL R&D Stores, Hyderabad.
2. HSN codes for all the items to be provided
3. For battery bank sizing in kWh, OEM authorised calculation sheet shall be submitted along with the offer
4. As this procurement is under DSIR, a concessional GST (%) certificate will be issued to the vendor before dispatch, for the supply scope of items vendor shall agree and quote with 5% GST.
5. For E&C, vendor shall give the normal GST rate whatever is applicable.
6. Accessories like control cables, cable terminations, cable joints, fuse, relays, battery stand and any tools shall be provided which are required for normal trouble free operation of the UPS.
7. Vendor shall give the list of accessories which he is going to submit with name and quantity in a tabular form along with technical bid.

Authorized Signatory (stamp & signature)