



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್  
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,  
(A Government of India undertaking)  
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

**Tender Document for " Centralized Rate contract for Stationary Ni-Cd Pocket Plate High Discharge Type Batteries for Various Projects of Various Units requirement of BHEL for One year 2026-27"**

<b>TENDER REFERENCE</b>	<b>NJP0000100</b>
<b>TENDER DOCUMENT AVAILABLE FROM</b>	As per <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a> website
<b>LAST DATE AND TIME FOR SUBMISSION OF TENDER</b>	
<b>DATE AND TIME FOR TENDER OPENING</b>	
<b>SUBMISSION OF TENDER</b>	The bidder should submit their offer in eProcurement portal only : <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>
<b>Note: Bidder to refer E-procurement portal(<a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a>) for any corrigendum, due date extension, etc. index:</b>	
This tender Document contains documents as per below Index:	
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2	INSTRUCTIONS TO BIDDERS
3	GENERAL COMMERCIAL CONDITIONS FOR CONTRACT
4	TECHNICAL SPECIFICATION WITH PRE-QUALIFICATION REQUIREMENTS
Contact Person at BHEL: Engineer(CE-MM-PR) Ph: 080-26998053,9591976250	



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 Bharat Heavy Electricals Ltd.,  
 (A Government of India undertaking)  
 Electronics Division

CE: PR: 003- Rev 03

PB 2606 , Mysore Road Bangalore , 560026 INDIA

**SPECIAL COMMERCIAL CONDITIONS OF CONTRACT**

Reference is brought to BHEL's Instructions to Bidders (Document Ref: CE: PR: 001- Rev 05) and General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 04).

These two documents along with Special Conditions of Contract annexed to this RFQ will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract.

- RFQ No. : **NJP0000100**  
 RFQ Date : As per E-procurement website  
 RFQ Due Date : As per E-procurement website  
 Customer/Project : **Centralized Rate Contract for Various project of Various Units requirement of BHEL for One Year 2026-27**  
 Scope Description : **Supply and Commissioning of Stationary Ni-Cd Pocket Plate High Discharge Type Batteries**

Kindly submit your quotation as **two part bid** (Pre-Qualification Criteria & Techno-Commercial bid-1st part & Price bid-2nd Part) in E-Procurement System portal: <https://eprocurebhel.co.in> within the Due- Date of \_\_\_ As per E-procurement website \_\_\_ before \_ As per E-procurement website \_\_\_ hours IST and note that tenders will be opened on the same day at \_ As per E-procurement website \_\_\_ hours IST.

**Purchase Executives:** Clarifications with regard to the tender shall be addressed to purchase officers whose e-mail IDs are given below:  
[nandjee@bhel.in](mailto:nandjee@bhel.in) or [rk.pandey@bhel.in](mailto:rk.pandey@bhel.in)

**Splitting of tendered quantity to MSE vendors for Purchase preference:** Non-Splitable

**Destination:** For Indigenous scope of supply, items are to be directly despatched to BHEL site office/stores located at\_ **Will be provided at the time of placement of PO for project---** state, India. Detailed Consignee details will be issued by BHEL along with Despatch Clearance.

**Terms of Delivery:**

- **Indigenous scope of supply:** Ex-works, <indicate station of dispatch> (including Packing & Forwarding charges but excluding Taxes).

**Under-mentioned details shall be provided against indigenous supplies & services:**

- a. GSTIN of place of supply : \_\_\_\_\_
- b. HSN (Harmonized System of Nomenclature) code : \_\_\_\_\_  
 Applicable tax and Rate : \_\_\_\_\_ & \_\_\_\_\_
- c. GSTIN of place of supply of service : \_\_\_\_\_
- d. SAC (Service Accounting Code) : \_\_\_\_\_  
 Applicable tax and Rate : \_\_\_\_\_ & \_\_\_\_\_
- e. GeM Seller ID mandatorily required for PO placement: \_\_\_\_\_
- f. MSE vendor : Yes-MSE supporting documents enclosed/No

(If MSE, supporting documents such as Udyam certificate to be enclosed)

**I. Bidders to mandatorily provide confirmation/compliance for the under-mentioned terms:**

SL NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	REMARKS , if any
01	<b>Reverse Auction (RA)</b>	<del>BHEL shall be resorting to Reverse Auction (Guidelines as available on <a href="https://www.bhel.com/guidelines-reverse-auction-2024">https://www.bhel.com/guidelines-reverse-auction-2024</a>) 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.</del>	AGREE	
02	<b>Delivery Period</b>	Within <b>172</b> days from the date of placement of Project wise Purchase Order. Mandatory spares Purchase Order shall be released with project-wise delivery schedule requirement, limited to an additional <b>540</b> days from the main supply PO delivery date. Manufacturing clearance will be provided project wise in line with the latest site delivery schedule.  Delay in contractual delivery will attract Penalty /Liquidated Damages(LD) as per GCC Clause no.:04.b.	AGREE	
03	<b>Terms of Payment at the time of material supply</b>	Refer Clause "F" of Instructions to Bidder for BHEL-EDN standard Payment terms and loading factors applicable for non-compliance against payment terms: <i>"100% payment of the basic price of Goods with 100% GST on the goods price will be paid in 45 days of delivery of consignment or 15 days from the date of submission of complete set of documentation, whichever is later. "</i>  <u>Note:</u> MSME vendors may opt to get payment through Trade Receivables electronic Discounting System (TReDS)	AGREE	
05	<b>Declaration of local content :</b> The 'Class-I local supplier' shall be required to indicate percentage of local content and provide certification that the item offered meets the local content	'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent. {'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under Public procurement order no.P-45021/2/2017-PP (BE-II) dt: 16.09.2020 and Revision dt.19-07-2024 In the event of any Nodal Ministry prescribing higher or lower margin of purchase preference and/or higher or lower percentage of local content in respect of this procurement, same shall be applicable}.' (Refer Clause 'A' Sl. No. 12 of Instructions to Bidders).	Percentage of local content : _____%  Details of the Location(s) at which the local value addition is made : _____	

requirement for 'Class-I local supplier'.	<p><b>Penal provisions for false self-declaration of MII, in case of Contract more than Rs.10Crs.</b></p> <p>For contract valuing more than Rs.10 Crores, local content (in case of self-declaration certification submitted by bidders at the time of tendering), the contractor/ supplier shall be required to give local content certification duly certified by cost/chartered accountant in practice, within 120days from the date of released of the first Purchase order based on RC by BHEL. In case the contractor/ supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-II/Non-local or from Class-II to Non-local, a penalty upto 10% of the contract value may be imposed. However, contract once awarded shall not be terminated on this account.</p>		
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**II. Bidder to note that Deviations shall not be permitted for the below mentioned terms and are deemed to be complied. In case of non-compliance/deviation, offer shall be liable for rejection:**

(1) **a) Submission of Engineering documents post PO as indicated in Cl: 04 of GCC:** After award of project wise contract, Successful bidder shall submit complete set of documents (like drawings, bill of materials, datasheets, catalogues, quality plan, etc. as called in tender specification) for approval, within **14** days from the date of award of project wise contract.

Buyer shall issue manufacturing clearance along with approved documents within **30** days after receipt of documents from seller. Any delay by buyer/consignee in providing approved documents beyond specified period shall be on the part of buyer and BHEL will extend the delivery period for such period of delay.

In case of any corrections in documents to be incorporated by seller for approval of document based on end-user/consultant/buyer comments, revised documents have to be submitted by seller incorporating the comments within **07** days from the date of receipt of the same.

Seller shall be required to commence manufacturing only after receipt of approved documents from BHEL.

**b) Extension of Delivery Period:** Refer Cl.04 b) Extension of Delivery Period of GCC.

(2) **Validity:** The offer will be valid for a period of **90** days from the date of Part-I bid opening and in case of Negotiation/ Counter-offer/Reverse Auction, price validity will apply afresh for a period of **60** days from the date of according final price by bidder (or) up to original validity period, whichever is later.

(3) **Warranty:** **24** months from the date of delivery of goods or **18** months from date of commissioning, whichever is earlier.

(4) **a) Pre-dispatch inspection at Seller premises as indicated in Cl: 06 a) of GCC:** While bidding, the sellers should take into account **10** days for arranging inspection from the date of email offering the goods for inspection. Any delay in arranging inspection beyond the specified period due to reasons not attributable to seller, shall be on the part of buyer and BHEL will extend the delivery period for such period of delay.

**b) Material despatch clearance certificate (MDCC):** Seller should take into account **10** days for issuance of despatch clearance by BHEL from the date of successful inspection report. Any delay in issue of MDCC beyond the specified period shall be on the part of buyer and BHEL will extend the delivery period for such period of delay.

(5) **Despatch Documents:** Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to Purchase Executive/BHEL directly. Depending upon the project/customer demands, Despatch documents may include one (or) more documents from the following:

Invoice (01 originals and 01 copy with original sign & seal / digitally signed invoice), Lorry Receipt (L/R), Packing List, NIL Short-Shipment Certificate, Warranty certificate, insurance intimation letter, E-way bill (Part-A & B), original POD (Proof of Delivery) on L/R.

The precise list of despatch documents needed for the project will be specified in the Purchase Order. One set of Invoice, Packing List, Lorry Receipt (or) AWB/BOL shall be e-mailed immediately to BHEL at the time of despatch.

Note: Detailed Packing List should indicate package-wise content details and also Net & Gross weight of each package.

(6) **Freight Charges:** Freight charges shall be to vendor's account. Bidder to quote reasonable **Freight charges in percentage of the total basic material cost of both Main Supply and Mandatory Spares** with applicable tax, in price bid. List of tentative project wise BOM is provided in purchase specification.

(7) **Evaluation criteria to determine L1 bidder:** Items will not be split on item-wise lowest offer. Evaluation of the lowest bidder will be done as a total combined package basis.

The Procuring Entity reserves its right to grant preferences to eligible Bidders under various Government Policies/ directives (policies relating to Make in India, MSME etc.)

a. Preference to Micro & Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in *Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012* dated 23.03.2012 issued by Ministry of MSME (and its subsequent Orders/Notifications issued by concerned Ministry) & the latest *Office Memorandum* issued by Department of Expenditure dt:18.05.2023.

If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product.

Bidder shall furnish the following declaration.

MSE declaration	Any Bidder falling under the MSE category shall furnish UDYAM Registration certificate in support of the same along with their techno-commercial offer. Note: If the bidder does not furnish the above in the tender, the offer shall be processed construing that the bidder does not fall under the MSE category.
MSE Category declaration	If the bidder belongs to any of the below MSE category, the bidder to mention Social Category and Gender in the REMARKS column and furnish UDYAM Registration certificate containing these details in support of the same along with their techno-commercial offer a. SC/ST Owned b. Women Owned  Note: If the bidder does not furnish the above in the tender, the offer shall be processed construing that the bidder does not fall under the above category.

b. Preference to Make in India (MII) products: Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India) order 2017 as amended from time to time (and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products) & the latest *Office Memorandum* issued by Department of Expenditure dt:18.05.2023 and Revision dt.19-07-2024.

{‘Class-I local supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under Public procurement order no. P-45021/2/2017-PP (BE-II) dt.: 16.09.2020 and Revision dt.19-07-2024.

'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under Public procurement order no. P-45021/2/2017-PP (BE-II) dt.: 16.09.2020 and Revision dt.19-07-2024}.

In the event of any Nodal Ministry prescribing higher or lower margin of purchase preference and/or higher or lower percentage of local content in respect of this procurement, same shall be applicable.')

If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted.

Default margin of purchase preference shall be 20% for Class-I local supplier only.

*Note: For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 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.*

Operation methodology of Purchase preference clause to MSE & MII bidders is as detailed under clause:4. c. b) in the Office Memorandum issued by Department of Expenditure dt:18.05.2023 (ref. Annexure-VIII of ITB).

**Note:** In case of negotiations, the margin of purchase preference (20% for Class-I Non-MSE or 15% for MSE) shall be based on pre-negotiated L1 price and the eligible Class-I & MSE local bidder will have to match the negotiated L1 price.

- (8) **Performance security:** Performance of the contract, Performance Bank Guarantee (PBG) or Security Deposit (SD), hereafter referred as performance security has to be submitted by successful bidder for **05%** of the Project wise contract value (Exclusive of PVC). CPBG has to be furnished within **05** Weeks after notification of the award and it should remain valid for a period of **60** days beyond the date of completion of all contractual obligations, including warranty obligations.

Refer Clause "H" of Instructions to Bidders. Also note that CPBG should be in the format specified in Annexure VII of ITB and no deviation to this format will be allowed.

Modes of deposit:

a) Performance security may be furnished in the following forms:

- (i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- (ii) Bank Guarantee from Scheduled Banks/Public Financial Institutions as defined in the Companies Act.
- (iii) PBG should be in the format specified in Annexure VII of ITB and no deviation to this format will be allowed.
- (iv) Fixed Deposit Receipt issued by Scheduled Banks/Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

(iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/hypothecated/pledged, as applicable, in favour of BHEL).

(v) Insurance Surety Bond.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

b) The Performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

c) Performance security shall be refunded to the supplier without interest, after duly performing and completing the contract in all respects but not later than 60 days of completion of all such obligations including the warranty under the contract.

d) The Performance security shall not carry any interest.

e) CPBG/PBG should be mandatorily submitted along with SFMS (Structured Financial Messaging System).

(9) **Breach of Contract, Remedies & Termination:** In case of breach of contract (failure of supplier), wherever the value of Performance security available with BHEL against the said contract is at least 10% of the contract value, the same shall be encashed.

In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the contractor, retention amount, etc. with BHEL) or legal remedies be pursued.

Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc. shall be applied as per provisions of the contract

(10) **Erection Supervision & Commissioning - Evaluation methodology:**

Range of procurement value	Minimum percentage of basic material value proposed for Erection Supervision & Commissioning charges
Up to Rs. 2.50 crs.	05%
Greater than Rs. 2.50 crs. and lesser than Rs. 10 crs.	03% (or) Rs.12.50 lakhs, whichever is higher.
Greater than Rs. 10 crs. and lesser than Rs. 20 crs.	02% (or) Rs.30 lakhs, whichever is higher.
Greater than Rs. 20 crs.	01.50% (or) Rs.40 lakhs, whichever is higher.

In case the quoted total E&C value is less than stipulated percentage of the main item supply value (excluding Mandatory spares), BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards E&C charges.

**Note:** Wherever bidders doesn't agree for such apportioning, the differential charges shall be retained from main supply invoice and retention amount will be paid after successful completion of Erection & Commissioning.

(11) **Payment terms for E&C charges:** 100% E&C charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of successful completion of installation & commissioning.

**(12) Additional terms and conditions:**

- i. This is for entering into a Centralized Rate Contract for Supply & Commissioning of above item for various projects, which shall remain valid for a period of One year from the date of LOI (Letter of intent).
- ii. Quantity indicated in the RFQ is based on BHEL' s projected requirement of various units of BHEL over the next one year. L1 evaluation will be done on combined package basis for the total estimated BOM provided in specification on "total cost to BHEL" basis. Project wise POs will be placed by the respective Unit of BHEL on the L1 vendor for the required BOM of project, as and when requirement arises, with unit prices as per rate contract, limited to total rate contract value. Quantity variation for PO placements shall be +/-25% for each line item limited to total rate contract value, during the tenure of this rate contract. In case, BHEL unit is ordering beyond the tolerance limit for an individual line item of that particular unit requirement, clearance from BHEL EDN shall be obtained.
- iii. For those projects where the rate contracted L1 vendor is not approved by customer, separate procurement action will be initiated by BHEL.
- iv. Rates and other terms and conditions agreed upon shall remain firm till the completion of tenure of rate contract or until the purchase order is executed / completed in all respects, whichever is later.

**(13) Based on the under-mentioned declarations of Bidder as insisted under Rule 144(Xi) of General Financial Rules,2017 amendment dt. 24.02.2023, eligibility of offer will be ascertained in the tender:**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that our firm is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that our firm fulfils all requirements in this regard and is eligible to be considered."

Note: Wherever applicable, evidence of valid registration by the Competent Authority shall be attached.

**Additional declaration by Bidder in the cases of specified Transfer of Technology (ToT):**

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that our firm does not have any ToT arrangement requiring registration with the Competent Authority."

OR

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that our firm has valid registration to participate in this procurement."

**(14) Integrity Pact: Integrity Pact:** Execution of Integrity Pact is applicable for this tender (Refer clause "K" of Instructions to Bidders). The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory who signs in the offer) along with techno-commercial bid. Only those Bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.**(15) Declaration regarding 'Conflict of Interest among Bidders/Agents'** should be submitted as part of the tender as per attached format.

**(16) Grievance Redressal Mechanism:**

To promote transparency and ensure fair treatment of all bidders, a structured Grievance Redressal Mechanism is in place to address any concerns or issues arising during the tendering process or in subsequent business dealings with the company.

Suppliers/Contractors are requested to follow the below escalation process for grievance resolution:

1. **First Level:** Any grievance should initially be addressed to the designated Dealing Officer, whose contact details are provided in the Notice Inviting Tender (NIT)/Contract.
2. **Second Level:** If the issue remains unresolved, it may be escalated by lodging a formal grievance through the SUVIDHA Portal: <https://suvidha.bhel.in/suvidha/>.

Responses will be provided in accordance with the defined escalation matrix.”

**(17) For goods / works / services on Indian Suppliers / Contractors:**

Irrespective of the value of the invoice amount, the supplier/ contractor should necessarily upload the invoice details on BHEL SUVIDHA portal at <https://suvidha.bhel.in/suvidha/>, prior to despatch/raising invoice. All documents as per contract checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and upto Rs five lakhs in case the requirement for digitally signed invoice is not explicitly mentioned in the contract checklist.

The Invoice will not be accepted in absence of the above.

(18) **Comprehensive Annual Maintenance Contract:** Not applicable

(19) **EMD/Bid security:** Not Applicable

(20) **Price variation clause:** PVC clause is applicable as per PVC annexure to SCC.

**Note: After price bid opening, Bidder/s has to provide detailed price break up for scope of supply as per purchase specifications.**

**With this, we hereby confirm that all the terms & conditions as indicated in Instructions to Bidders (Document Ref: CE: PR: 001- Rev 05) & General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 04) are accepted without any deviation.**

Vendor's Signature with Seal

**PVC annexure to SCC**

**Price Variation Formula for Ni-Cd Pocket Plate High Discharge Type Batteries**

1. Prices for Ni-Cd Pocket Plate High Discharge Type Batteries shall be variable as per following PVC formulae as per IEEMA. PVC shall be limited for material available in formulae and its rates will be considered as published by IEEMA.

<b>Battery Type</b>	<b>Formulae</b>	<b>Table Ref</b>
PVC for Ni-Cd Pocket Plate High Discharge Type Batteries	$P = \frac{P_o}{100} \left( 38 + 20 \frac{Ni}{Ni_o} + 42 \frac{W}{W_o} \right)$	As per IEEMA Cir. No. IEEMA/PVC/BTR-NiCd/2023 Effective date 01 March 2024

Wherein,

**P** = Price payable as adjusted in accordance with the above formula.

**P<sub>o</sub>** = Price quoted/confirmed.

**Ni<sub>o</sub>** = Price of Nickel in INR

This price is as applicable from IEEMA PV circular, **ONE** month prior to the date of tendering.

**W<sub>o</sub>** = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2016= 100)

This index number is as applicable for the month, **THREE** months prior to the date of tendering.

**Ni** = Price of Nickel in INR

This price is as applicable from IEEMA PV circular, **ONE** month prior to the date on which Battery is notified as being ready for inspection.

**W** = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2016 = 100)

This index number is as applicable for the month, **THREE** months prior to the date on which Battery is notified as being ready for inspection.

2. PVC shall be applicable for Order Qty. and subsequent lots (if any) till completion of requirement.

3. The positive/upward price variation shall be limited to +20% per annum from the initial price base date and –ve price variation shall be unlimited.

4. PVC shall be payable within agreed contractual delivery period. In case of delay is attributable to vendor, for the payment purpose, the PVC shall be calculated based on rates applicable on the first working day of month one month prior to contractual delivery expiry date or the first working day of month, one month prior to the date on which item is notified as being ready for inspection, whichever is beneficial to BHEL.

## **On Bidder Letter Head**

**Date:**

To,  
M/s Bharat Heavy Electricals Ltd.  
Electronics Division, Mysore Road,  
Bangalore – 560026

### **Sub: Declaration regarding 'Conflict of Interest among Bidders/Agents'**

**Ref:** BHEL Tender / RFQ / NIT Number .....

Bidders having a conflict of interest shall not be eligible to participate in the tender process. In this regard, following declaration regarding 'conflict of interest' should be signed by the authorized signatory of the bidder and submitted as part of the tender.

### **Treatment of cases regarding conflict of interest:**

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the tender process in which it is participating;
- iii) Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/supplier or the manufacturer/supplier could bid directly but not both. In case bids are received from both manufacturer/supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one authorised distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with the other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. **In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/guidelines.**

For M/s .....

Authorized Signatory

(with company seal & Name)

**On Bidder Letter Head**

**Date:**

To,

M/s Bharat Heavy Electricals Ltd.

Electronics Division, Mysore Road,'

Bangalore – 560026

**Sub:** Model Clause / Certificate as per clause 9 (a) of Revised Public Procurement (Preference to Make in India Order, 2017 of DPIIT dated 19.07.2024

**Ref:** BHEL Tender / RFQ / NIT Number .....

I (authorized signatory for M/s ..... ) a 'Class-I Local Supplier' / 'Class-II Local Supplier' at the time of tender, bidding or solicitation hereby confirm that the item meets the Local Content requirement for 'Class-I Local Supplier' / 'Class-II Local Supplier' .

**Tick appropriate option & cut the other one:**

**1)**We are the reseller/distributor of the quoted product and the Local Content percentage is .....  
Break up of Local value addition to be furnished below (inclusive of Taxes):

- a)
- b)
- c)

OEM certificate for country of origin to be submitted for above.

**2)** We are not the reseller/distributor of the quoted product and the Local Content percentage is .....

The address is as below, where the local content / value addition is made:

[Factory Address]

For M/s .....

Authorized Signatory

(with company seal & Name)

To,  
M/s Bharat Heavy Electricals Ltd.,  
Electronics Division P.B. No. 2606  
Mysore Road, Bangalore –560 026  
Ph. No.: 080 2699 8994

**Ref –**

**Subject:** Declaration as a Compliance of Restrictions under Rule 144 (xi) of GFR 2017 as per DOE Order (Public Procurement No.4) dated 23.02.2023 (as amended from time to time).

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that our firm is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that our firm fulfils all requirements in this regard and is eligible to be considered.



ಭಾರತ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್  
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,  
 (A Government of India undertaking)  
 Electronics Division

PB 2606 , Mysore Road, Bengaluru , 560 026, INDIA

CE:PR:001- Rev 05

### INSTRUCTIONS TO BIDDERS

**Bidder is requested to read the instructions carefully and submit their quotation taking into consideration of all the points:**

#### A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: CE: PR: 001 – Rev 05), General Conditions of Contract (document reference: CE: PR: 002 - Rev 04) and Special Conditions of Contract, if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Regret letter (either through post or by mail or by EPS) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender.

Supplier shall be liable for removal as a registered vendor of BHEL when the supplier fails to quote against four consecutive tender enquiries for the same item or all enquiries in last two years for the same item, whichever is earlier.

4. Procurement directly from the manufacturers is preferred. However, if the OEM/ Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender.

Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. Agent/Representative authorized by the OEM/Principal in turn cannot further sub authorize any other firm for submitting the offer or for placement of order.

In case bids are received from the manufacturer/ supplier and his agent, bid received from the agent shall be ignored.

5. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
6. If an Indian representative/associate/liaison office quotes on behalf of a foreign based bidder, such representative shall furnish the following documents:
  - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
  - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
  - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages/damages/replacement/repair of imported scope

till the equipment is commissioned and handed over to customer will be the sole responsibility of the Indian representative/associates/agent/liaison office.

d. Refer **Annexure I** on “Guidelines for Indian Agents”.

7. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport /Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment.

Warehousing charges due to incomplete or missing documentation will be to supplier’s account. All offers for imported scope of supply by air, must be made from any of the gateway ports (within the country) indicated **(Refer Annexure II)**.

8. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: [http://www.bhel.com/vender\\_registration/vender.php](http://www.bhel.com/vender_registration/vender.php)
9. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices/misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike/lockout for a long period. Bidder may refer “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available on <https://bhel.com/guidelines-suspension-business-dealings-supplierscontractors> for more details.

The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies / guidelines.

10. 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.edn.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to your notice.
11. Offer is to be submitted in English language only.
12. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public procurement (Preference to Make in India), Order 2017 dated 16.09.2020 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 price bids against this NIT. Default margin of purchase preference shall be 20% for Class-I local supplier only.

13. The Bidder shall mandatorily submit Declaration as mentioned under Rule 144(xi) of General Financial Rules, 2017 amendment dt 23.07.2020 issued by Ministry of Finance, Govt. of India. Where applicable, evidence of valid registration by the Competent Authority shall be attached.

The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Refer Annexure-X for 'Restrictions under Rule 144(Xi) of General Financial Rules,2017 amendment dt: 23.07.2020'.

## **B. GUIDELINES FOR PREPARATION OF OFFER:**

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:
  - **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
  - **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer**) and Priced offer i.e. "Price Bid "containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**".

Both these envelopes shall be enclosed in a single sealed envelope superscribed with enquiry number, due date of tender and any other details as called for in the tender document.

- **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope superscribed with enquiry number, due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission (or) if any part of the offer is incomplete, the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to superscribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid".

Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.

3. BHEL standard Commercial Terms and Conditions (duly filled, signed & stamped) must accompany Technical-Commercial offer without fail and should be submitted in original only.

The above indicated submission of Offers in "sealed envelope/hard copy" as mentioned in points B.1-B.3 is applicable for tenders that are not floated through E-Procurement System (EPS).

4. Validity: Unless otherwise specified in SCC (special commercial conditions of contract), the offer will be valid for a period of 90 days from the date of Part-I bid opening and in case of Negotiation/Counter-offer/Reverse Auction, price validity will apply afresh for a period of 60 days from the date of according final price by bidder (or) up to original validity period, whichever is later.

5. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid.

If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without deviation.

6. Deviation to this specification/item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid.

If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.

7. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and/or any other relevant documents called in purchase specification as part of Technical Bid.
8. "Price Bid" shall be complete in all respects containing price break-up of all components along with all applicable taxes and duties, freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.
9. In addition, bidder shall also quote for erection & commissioning charges/erection supervision & commissioning charges (E&C service charges), documentation charges, testing Charges (type & routine), training charges etc. if & as applicable along with corresponding tax. The price summary must indicate all the elements clearly.
10. Wherever applicable, bidders should indicate "Lumpsum" Erection and Commissioning (or) Erection Supervision and Commissioning charges, as applicable (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for carrying out E&C activity and further handing over to customer.

The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist (if any).

11. Wherever bidders require PAC (Project Authority Certificate)/applicable certificates for import of raw materials, components required for DECC, EPCG Power Projects, Export Projects or other similar projects wherein supplies are eligible for customs duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.
12. Prices should be indicated in both figures & words. Bid should be free from correction/overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.  
Any typographical error, totalling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure III** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid" and BHEL decision will be final.
13. Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. However, this requirement is not mandatory for offers uploaded through E-Procurement System (EPS).

### **C. GUIDELINES FOR OFFER SUBMISSION:**

The under-mentioned clauses 1, 2&3 will not be applicable for EPS tenders.

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in tender opening room near reception.

Tenders are opened on 3 days in a week (Monday/Wednesday/Friday).

2. E-Mail/ Internet/EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email ID specified in the SCC document of the tender.

3. Offers of Vendors who already have a valid Technical/Commercial MOU with BHEL-EDN for the items of the RFQ shall mention the relevant MOU reference no. and give only such other details not covered in the MOU.
4. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over either of the two purchase officers whose names are mentioned in the SCC document of tender RFQ.
5. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. For EPS tenders, e-mail notifications will be automatically generated and forwarded to registered e-mail ID/s of bidders during opening of tenders.
6. Bidder will be solely responsible:
  - a. for submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
  - b. for depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong box (or) if the tender document is handed over to the wrong person, BHEL will not be responsible for any such delays.
  - c. for offers received through email etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time (This clause will not be applicable for EPS tenders).

The above indicated submission of Offers as mentioned in points 6.a-6.c is applicable for tenders that are not floated through online procurement portal considered by BHEL.

- d. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, system/software requirements etc. will be the sole responsibility of the bidder.

Wherever assistance is needed for submission of e-tenders, help-line numbers as available in the website of service provider of BHEL may be contacted.

**Purchase Executive/ BHEL shall not be responsible for any of the activities relating to submission of offer.**

#### **D. PROCESSING OF OFFERS RECEIVED:**

1. Any discount/ revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid).  
The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes/revisions are requested by BHEL.  
In case of withdrawal of any Technical/Commercial deviation(s) by the bidder before opening of price bids/conducting the Reverse Auction, revision of price/price impact bid, if any will not be accepted.
3. In case there is no change in the technical scope and/ or specifications and/ or commercial terms & conditions, the supplier will not be allowed to change their price bid after technical bids are opened (after the due date and time of tender opening).
4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL

and it accounts for price implications from bidders, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid.

Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening.

5. Un-opened bids (including price bids) will be returned to the respective bidders after release of Purchase order.

Regarding Offers for EPS tenders that get rejected on PQC/ techno-commercial grounds, the bids for the subsequent parts will not be opened i.e., both technical bid and price bid (Parts-II & III) will not be opened in case of rejection on PQC ground and price bid (Part-II/Part-III, as applicable) will not be opened in case of rejection on techno-commercial ground.

6. After receipt of Purchase Order, supplier should submit required documents viz., specified drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report, O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.
7. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL and agreed upon in the Purchase Order.
8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL").

"Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and/or duties (as applicable), freight charges, taxes on Services, customs clearance charges for imported items, any other cost indicated by bidder for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions).

Benefits arising out of Nil Import Duty on DEEC, EPCG, DFIA Projects, Physical Exports or such 100% exemptions (statutory benefits), project imports, customer reimbursements of statutory duties (like Basic Customs Duty and Cess on customs duty), Input tax credits as applicable will also be taken into account for arriving at the Total cost to BHEL (wherever applicable and as indicated in SCC document of tender).

For EPS tenders, it shall be noted that the prices (including discounts) vis-a-vis currency quoted in EPS portal only will be considered as Final for the purpose of evaluation of the lowest bidder.

Bidder shall ensure to indicate the applicable taxes against each line item in online portal, failing to which the same will be considered as inclusive/NIL.

In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.

In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

9. The evaluation currency for this tender shall be INR. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids:	Date of tender opening
Two/three part bids:	Date of Part-I bid opening
Reverse Auction:	Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.

10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers.

#### **E. INFORMATION ON PAYMENT TERMS:**

- All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format (**Refer Annexure IV**) for receiving all payments through NEFT. (Applicable for Indian vendors only).
- In case of High Sea Sales transaction, customs clearance of the consignment landed on Indian Sea/Air ports will be done by BHEL based on the original HSS documents provided by vendors.

All warehousing charges due to delay in submission of complete and or correct HSS documents to BHEL will be to supplier's account only. Such recovery will be made out of any of the available bills (**Refer Annexure V**).

- Statutory deductions, if any, will be made and the deduction certificate shall be issued.
  - In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.  
In addition to the above, Foreign vendors shall also submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
  - TDS deduction as per section 51 of CGST Act, 2017 shall be applicable as per Gazette Notification No. 50/2018-Central Tax, Dated: 13th September 2018. TDS deduction is also applicable on purchase of goods as per the latest notification under section 194Q, and subsequent notification(s) as and when released by Govt. authorities.
- Procurement of Goods/ Works/ Services/ Consultancy Services [under clause relating to "Income Tax and Corporate Tax" or "TDS" of Model ITBs]

- Provision w.r.t. TDS on Purchase of Goods under section 194Q of Income Tax Act applicable from 01.07.2021 is as under:
  - TDS as applicable will be deducted by BHEL under section 194Q of the Income Tax Act, 1961 on Purchases exceeds, the amount of Rupees. 50 Lakhs or limit defined therein from time to time during the financial year under the Indian Income Tax act 1961.
  - Since BHEL is liable to deduct Income Tax TDS under section 194Q, the provision of TCS as per section 206C(1H) of the Income Tax Act, 1961 shall not be applicable.
- Higher rate of TDS for non-filers of ITR as per Section 206AB of Income Tax Act, 1961, in case of any vendor who does not filed their Income Tax Return for both of the two previous years preceding to current year and aggregate amount of TDS is more than or equal to Rs. 50,000/- in each of those previous two years (or limit defined by Govt. from time to time), then TDS will be deducted at the higher of following rates:
  - Twice the rate mentioned in relevant TDS section.

- (ii) Twice the rate or rates in force  
(iii) 5%
5. Incomplete documentation will not be accepted. Delayed submission of invoice / documents may result in corresponding delay in payment. In this connection, request to also refer clause: G (Refer Page.11) about invoicing & payment formalities under GST regime.
- Applicable documents shall be submitted to the purchaser at the time of execution of supplies/services for availing GST input credits.
6. Bank charges of Seller's bank shall be to Seller's account and bank charges of Owner's bank other than Bill collection charges shall be to owner's account. Bill collection charges will be borne by Seller.

#### **F. STANDARD PAYMENT TERMS OF BHEL-EDN:**

<b><u>PURCHASE ORDERS FOR:</u></b>	<b><u>SUPPLY WITH SERVICE(S)</u></b>	<b><u>SUPPLY ONLY</u></b>
<b><u>INDIGENOUS PROCUREMENT</u></b>	<p>i. 100% payment of the basic price of Goods with 100% GST on the goods price will be paid in 45 days of Delivery of consignment or 15 days from the date of submission of complete set of documentation, whichever is later. (or)</p> <p>ii. 100% payment of the basic price of Goods with 100% GST on the goods price will be paid against Letter of Credit with usance period of 120 days from Delivery of consignment against submission of complete set of documents. LC processing charges viz., opening, amendment / discrepancy (if &amp; as applicable) will be to supplier's account.</p> <p><u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice &amp; Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.</p>	<p>i.100% payment of the basic price of Goods with 100% GST on the goods price will be paid in 45 days of Delivery of consignment or 15 days from the date of submission of complete set of documentation, whichever is later. (or)</p> <p>ii.100% payment of the basic price of Goods with 100% GST on the goods price will be paid against Letter of Credit with usance period of 120 days from Delivery of consignment against submission of complete set of documents. LC processing charges viz., opening, amendment / discrepancy (if &amp; as applicable) will be to supplier's account.</p>

<p><b><u>IMPORT PROCUREMENT</u></b></p>	<p>100% payment of the basic price of Goods will be paid against usance draft of 45 days from arrival of <b>consignment at destination as per contractual INCOTERMS</b> against submission of complete set of documents.</p> <p><u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice &amp; Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.</p>	<p>100% payment of the basic price of Goods will be paid against usance draft of 45 days from arrival of <b>consignment at destination as per contractual INCOTERMS</b> against submission of complete set of documents.</p>
<p><b><u>HIGH-SEA SALES PROCUREMENT</u></b></p>	<p>i) 100% payment of the basic price of Goods will be paid in 45 days from <b>arrival of consignment at destination (in India as per contractual INCOTERMS)</b> or 15 days from the date of submission of complete set of dispatch documents, whichever is later. (or)</p> <p>ii) 100% payment of the basic price of Goods with 100% GST on the goods price will be paid against <b>Letter of Credit with usance period of 120 days from arrival of consignment at destination (in India as per contractual INCOTERMS)</b> against submission of complete set of documents. LC processing charges viz., opening, amendment / discrepancy (if &amp; as applicable) will be to supplier's account.</p> <p><u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice &amp; Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.</p>	<p>i) 100% payment of the basic price of Goods will be paid in 45 days from <b>arrival of consignment at destination (in India as per contractual INCOTERMS)</b> or 15 days from the date of submission of complete set of dispatch documents, whichever is later. (or)</p> <p>ii) 100% payment of the basic price of Goods with 100% GST on the goods price will be paid against <b>Letter of Credit with usance period of 120 days from arrival of consignment at destination (in India as per contractual INCOTERMS)</b> against submission of complete set of documents. LC processing charges viz., opening, amendment / discrepancy (if &amp; as applicable) will be to supplier's account.</p>

### **1. Erection and Commissioning:**

**Evaluation methodology:** Unless and otherwise specified in SCC, E&C charges should not be less than 10% of the main supply value. In case the quoted total E&C value is less than 10% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards E&C charges.

**Payment term:** 100% E&C charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of E&C.

## **2. Erection Supervision and Commissioning:**

**Evaluation methodology:** Unless and otherwise specified in SCC, E,S&C charges should not be less than 5% of the main supply value. In case the quoted total E&C value is less than 5% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards E,S&C charges.

**Payment term:** 100% E,S&C charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of E,S&C.

## **3. Comprehensive Annual Maintenance Contract:**

**Evaluation methodology:** Unless and otherwise specified in SCC, CAMC will be applicable for a period of 04 years from the date of expiry of warranty period (or) from the date of completion of commissioning of equipment, whichever is later and the total CAMC value should not be less than 20% of the main supply value. In case the quoted total CAMC value is less than 20% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards CAMC charges.

**Payment terms:** 100% CAMC charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of CAMC on yearly basis.

**4. Terms of Payment for Training:** 100% payment will be made in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of invoice along with documentary evidence, whichever is later.

## **LOADING FACTORS FOR DEVIATION IN PAYMENT TERMS (APPLICABLE FOR IMPORT PROCUREMENT ONLY):**

- 1) For offers received with Sight draft payment term in place of Usance draft, loading applicable will be 1.0% of basic value.
- 2) For offers received with Letter of Credit payment term with Usance of 45 days, loading applicable will be 2.5% of basic value.  
Additional loading of 2% will be applicable for payment term as Letter of Credit at Sight.
5. Any payment term with credit period of less than 45 days for indigenous supply/HSS and any other variation of payment terms are liable for rejection.
6. Standard payment terms indicated in Clauses: F (a), (b), (c), (d), (e), (f), (g), (h), (i) & (j) will not attract any loading.

**Note 1:** Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight, training charges, E&C/E,S&C and AMC charges (wherever applicable). Wherever the Purchase Order is split into import portion and indigenous portion of supply, minimum % to be quoted for Services, wherever mentioned, will be of both purchase order values put together.

**Note 2:** In case of multiple packages/units in a power plant, payment of E&C/E,S&C charges will be processed on pro-rata basis.

**Note 3:** No deviation will be permitted from the duration of Guarantee/Warranty and/or Comprehensive Annual Maintenance Contract period specified in SCC.

**Note 4:** Indigenous bidder may opt to quote with payment through Letter of Credit with usance period of 120 days. Bank charges of seller's bank shall be to seller's account and bank charges of BHEL's bank other than bill collection charges shall be to BHEL's account. Bill collection charges will be borne by seller.

**G. Terms & Conditions to be complied under GST regime:**

1. All invoices to contain BHEL-EDN (buyer) GSTIN number: 29AAACB4146P1ZB. However for CGST +SGST/UGST billing outside the state of Karnataka, invoice has to be generated with BHEL's Nodal Agency GSTIN number. Address of Nodal Agency along with GSTIN number will be provided by BHEL at the time of issuing dispatch clearance.
2. The Bidder shall mention Bidder's GSTIN number in all quotations and Invoices submitted.
3. The Bidder shall also mention HSN (Harmonized System of Nomenclature) / SAC (Services Accounting Code) mandatorily in all quotations and invoices submitted.
4. Invoice submitted should be in the format as specified under GST Laws viz., all details as mentioned in Invoice Rules like GST registration number(GSTIN), invoice number with date of issue, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST, IGST mentioned separately, HSN Code / SAC Code etc. Invoice should be submitted in original for buyer plus duplicate for credit availment.
5. Payment of GST to Vendor will be made only if it is matching with data uploaded by the Vendor in GST portal.
6. For invoices paid on Reverse charge basis – “Tax payable on reverse charge basis” to be mentioned on the invoice.
7. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount will be recoverable from vendor along with interest levied/ leviable on BHEL.
8. In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recoverable from vendor/contractor along with interest levied/ leviable on BHEL.
9. Vendor should intimate BHEL immediately on the same date of invoicing without any delay.
10. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the supplies, within the calendar month notified by BHEL.
11. Bidders to note that Rules & Regulations pertaining to E-way bill system are to be strictly adhered to, as and when notified by Govt. authorities.
12. As per Notification 88/2020-Central Tax dated 10th November 2020 (applicable w.e.f. 01 January 2021), the turnover for applicability of E-invoicing provisions has been reduced from 500 crores to 100 crores. In other words, registered person [other than a SEZ unit and those referred in Rule 54(2), 54(3), 54(4) and 54(4A) of the CGST Rules], whose aggregate turnover in any preceding financial year from 2017-18 onwards exceeds 100 crores, is required to comply with the requirement of IRN and QR code in respect of supply of goods or services or both to a registered person or for exports.

**H. Performance bank guarantee (PBG):**

Performance bank guarantee (PBG) will be applicable as called in the tender documents. Unless otherwise specified in the SCC, the PBG against performance of the contract shall be valid for a period of 24 months from the date of delivery of goods + claim period of 03 months, for a value equal to 10 % of the basic value of the purchase order which will include all components of the purchase order and will exclude only taxes, duties, freight, training charges, E&C/E,S&C and AMC charges (wherever applicable).

1. The BG issued in Indian Rupees by Banks in India is to be executed on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Bank issuing the guarantee.
2. No deviation for the duration and value of PBG will be permitted.
3. PBG shall be from any of the BHEL consortium of bankers (**refer Annexure VI**).
4. PBGs from nationalized banks are also acceptable.
5. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order.
6. PBG should be in the format specified (**refer Annexure VII**). No deviation to this format will be allowed. However in case BHEL changes the PBG format, bidder shall honor the same.
7. Bank Guarantee should be enforceable in Bangalore.
8. In Case of Bank Guarantees submitted by Foreign Vendors-
  - a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India) can be accepted subject to the condition that the Bank Guarantee should be enforceable in Bangalore.
  - b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor Country's Bank)
    - b.1 Please note that Bank Guarantee issued by any of the Consortium Banks only will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-Guarantee by Foreign Bank in favor of the Indian Bank's (BHEL's Consortium Bank) branch in India. It shall be noted that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor.
    - b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at sl.no. b.1 is required to be followed.
    - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time).
9. Expired PBGs will be returned only after expiry of the claim period.
10. PBG shall not be applicable for spares.

**I. PURCHASE PREFERENCE FOR MSE(MICRO AND SMALL ENTERPRISES) VENDORS:**

Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods.

Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product. Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

a. If tendered quantity is Splittable: In tender, participating MSEs quoting price within price band of L1+15 percent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price from someone other than a MSE and such MSE shall be allowed to supply at least 25% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately (to tendered quantity).

- 3% of the 25% will be earmarked for women owned MSEs.
- 25% of the 25% (i.e., 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms.
- In case where no SC/ST category firms have not participated in the tender, the 6.25% of earmarked quantity for SC/ST owned MSE firms will be distributed among the other eligible MSE vendors who have participated in the tender.

b. If tendered quantity is Non-Splittable: If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100% of total value.

#### **J. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:**

1. Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the Tender process and execution of the Contract. BHEL will, during the tender process, treat all bidder / suppliers in a transparent and fair manner, and with equity.
2. Commitment by Bidder(s)/ Contractor(s):
  - a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
  - b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
  - c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. The Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain or pass on to others, any information or document provided by BHEL as part of business relationship.
  - d. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

#### **K. Integrity Pact (IP):**

- a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner.

For details of Independent External Monitors (IEMs) on the present panel appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL, kindly refer BHEL website [www.bhel.com](http://www.bhel.com)

- b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/three part bid).  
Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- c) Please refer Section-8 of the IP for Role and Responsibilities of IEMs (Annexure IX). In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEM/s shall be done through email only.

Note: No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are indicated in SCC document of tender.

**L. Conflict of Interest among Bidders/Agents:**

*"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:*

- a) *they have controlling partner (s) in common; **or***
- b) *they receive **or** have received any direct or indirect subsidy/ financial stake from any of them; **or***
- c) *they have the same legal representative/agent for purposes of this bid; **or***
- d) *they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or***
- e) *Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; **or***

- f) *In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:*
1. *The principal manufacturer directly or through one Indian agent on his behalf; and*
  2. *Indian/foreign agent on behalf of only one principal;*
- or**
- g) *A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or*
- h) *In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business."*

### Clause on IP in the tender

#### **Integrity Pact (IP)**

- (a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SI	IEM	Email
1.	Dr. Sarat Kumar Acharya, Ex-CMD, NLC	<a href="mailto:iem1@bhel.in">iem1@bhel.in</a>
2.	Shri R. Mukundan, IRPS (Retd.)	<a href="mailto:iem2@bhel.in">iem2@bhel.in</a>
3.	Shri Madan Lal Meena, IAS (Retd.)	<a href="mailto:iem3@bhel.in">iem3@bhel.in</a>

- (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- (c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the panel of IEMs. All correspondence with the IEMs shall be done through email only.

#### Note:

*No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:*

Details of contact person(s):

(1)

Name: Sh. Nandjee Pandit  
 Deptt: CE-MM-PR  
 Address: BHEL EDN Bengaluru-560026  
 Phone: 080-2699 8053/+91 9591976250  
 Email: [nandjee@bhel.in](mailto:nandjee@bhel.in)

(2)

Name: Sh. Rabindra Kumar Pandey  
 Deptt: CE-MM-PR  
 Address: BHEL EDN Bengaluru-560026  
 Phone: 080-2698 9042/+91 9449853204  
 Email: [rk.pandey@bhel.in](mailto:rk.pandey@bhel.in)

RFA No.: NJP0000100 INTEGRITY PACT

**Between**

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

**and**

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

**Preamble**

The Principal intends to award, under laid-down organizational procedures, contract/s for Centralized Rate Contract for Stationary Ni-cd Pocket Plate High discharge type Batteries (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

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

**Section 1- Commitments of the Principal**

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
  - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Bharatiya Nyaya Sanhita (BNS) 2023 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

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

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.



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

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

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

### **Section 4 - Compensation for Damages**

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

### **Section 5 - Previous Transgression**



- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years (to be reckoned from date of bid submission) with any other company in any country conforming to the anti-corruption approach in India that could justify his exclusion from the tender process. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The transgression(s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

#### **Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)**

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of Sub-contracting, the Principal Contractor shall be solely responsible for the adherence to the provisions of IP by the sub-contractor(s).
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

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

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

#### **Section 8 -Independent External Monitor(s)**

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact on receipt of any complaint by them from the bidder(s).
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as /Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.
- 8.5 The role of IEM is advisory and the advice of IEM is non-binding on the Organization. However, as IEMs are invariably persons with rich experience who have retired as senior functionaries of the government, their advice would help in proper implementation of the IP.




- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of the tendering process, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an examination, and submit their joint recommendations to the Management. In case the full panel is not available due to some unavoidable reasons, the available IEM(s) will conduct examination of the complaints. Consent of the IEM(s), who may not be available, shall be taken on record.
- 8.7 The IEMs shall examine all the representations/grievances/ complaints received by them from the bidders or their authorized representative related to any discrimination on account of lack of fair play in modes of procurement and bidding systems, tendering method, eligibility conditions, bid evaluation criteria, commercial terms & conditions, choice of technology/ specifications etc.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Bharatiya Nyaya Sanhita (BNS)/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

#### Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

#### Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.



- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. If required, the Principal may adopt any mediation rules for this purpose. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract.

ನಂದಜೀ ಪಂಡಿತ್, ಎಂಜಿನಿಯರ್/ನಿ.ಉ.-ಎಂ.ಎಂ.-ಪಿ.ಆರ್.

ನಂದಜೀ ಪಂಡಿತ್, ಅಭಿಯಂತರ/ಸಿ.ಇ.-ಇಂ.ಇಂ.-ಪಿ.ಆರ್.

NANDJEE PANDIT, ENGINEER/CE-MM-PR

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

For & On behalf of the Principal  
(Office Seal)

ವಿನೀತ್ ರಾಜ್ ತ್ರಿಪಾಠಿ, ಎಂಜಿನಿಯರ್/ನಿ.ಉ.-ಎಂ.ಎಂ.-ಪಿ.ಆರ್.

ವಿನೀತ್ ರಾಜ್ ತ್ರಿಪಾಠಿ, ಪ್ರಬಂಧಕ/ಸಿ.ಇ.-ಇಂ.ಇಂ.-ಪಿ.ಆರ್.

VINIT RAJ TRIPATHI, MANAGER/CE-MM-PR

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Witness: \_\_\_\_\_  
(Name & Address) \_\_\_\_\_

For & On behalf of the Bidder/ Contractor  
(Office Seal)

Witness: \_\_\_\_\_  
(Name & Address) \_\_\_\_\_

Annexure

Annexure I  
Guidelines for Indian Agents

- **Definition of Indian Agent:** An Indian Agent of foreign principal is an individual, a partnership, an association of persons, a private or public company, that carries out specific obligation(s) towards processing of BHEL tender or finalization or execution of BHEL's contract on behalf of the foreign supplier.

In case of yes, vendor to note the following and reply accordingly:

- 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.
- 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.
- 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.
- Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.
- In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.
- The "Guidelines for Indian Agents of Foreign Suppliers" enclosed at annexure -'A' shall apply in all such cases.

- viii. The supply and execution of the Purchase Order (including indigenous supplies/ service) shall be in the scope of the OEM/ foreign principal. The OEM/ foreign principal should submit their offer inclusive of all indigenous supplies/ services and evaluation will be based on 'total cost to BHEL'. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per the extant guidelines of Supplier Evaluation, Approval & Review Procedure (SEARP), before opening of price bids. In this regard, details may be checked as per Annexure-B (copy enclosed). It will be the responsibility of the OEM/ foreign principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on [www.bhel.com](http://www.bhel.com).

The responsibility for successful execution of the contract (including indigenous supplies/ services) lies with the OEM/ foreign principal. All bank guarantees to this effect shall be in the scope of the OEM/ foreign principal.

--x--

Vendor's Signature with Seal

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 **Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
  - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
  - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
  - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
  - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
  - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
  - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

**ANNEXURE - II**  
**LIST OF INTERNATIONAL GATEWAY AIRPORTS**

For air based consignment, terms of delivery will be on FCA basis from following listed airports only. Vendors are requested to verify this list for use before submission of offer.

SCHEDULE NO	COUNTRY	CURRENCY CODE	AIRPORT
D01	UK	GBP	LONDON (HEATHROW)
D02	UK	GBP	NEW CASTLE
D03	UK	GBP	OXFORD. CHETLAM
D04	UK	GBP	BRISTOL. WELLINGBOROUGH
D05	UK	GBP	BIRMINGHAM
D06	UK	GBP	EAST MIDLANDS
D07	UK	GBP	MANCHESTER
D08	UK	GBP	LEEDS
D09	UK	GBP	GLASGOW
D10	FRANCE	EURO	PARIS (ROISSY) & LYON
D11	SWEDEN	EURO	STOCKHOLM
D12	SWEDEN	EURO	GOTHENBERG & MALMO
D13	ITALY	EURO	ROMA, MILAN
D14	ITALY	EURO	TURIN, BOLOGNA, FLORENCE
D15	NETHERLANDS	EURO	AMSTERDAM, ROTTERDAM
D16	AUSTRIA	EURO	VIENNA, LINZ, GRAZ
D17	BELGIUM	EURO	ANTWERP, BRUSSELS
D18	DENMARK	DKK	COPENHAGEN
D19	JAPAN	JPY	TOKYO, OSAKA
D20	SINGAPORE	SGD	SINGAPORE
D21	CANADA	CAD	TORONTO
D22	CANADA	CAD	MONTREAL
D23	USA	USD	NEW YORK, BOSTON
D24	USA	USD	CHICAGO
D25	USA	USD	SAN FRANCISCO, LOS ANGELES
D26	USA	USD	ALANTA, HOUSTON
D27	GERMANY	EURO	MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	TAIPEI
D49	UKRAINE	USD	KIEV
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	MANILA
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	LARNACA
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	BANGKOK
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

**ANNEXURE – III**

**DISCREPANCY IN WORDS & FIGURES – QUOTED IN PRICE BID**

Following guidelines will be followed in case of discrepancy in words & figures-quoted in price bid:

(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 to (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.

**ANNEXURE - IV**  
**Electronic Funds Transfer (EFT) OR**  
**Paylink Direct Credit Form**

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): \_\_\_\_\_ CREATE \_\_\_\_\_ CHANGE

BHEL Vendor / Supplier Code:

Company Name :

Permanent Account Number(PAN):

Address

City:  PINCODE  STATE

Contact Person(s)

Telephone No:

Fax No:

e-mail id:

1 Bank Name:

2 Bank Address:

3 Bank Telephone No:

4 Bank Account No:

5 Account Type: Savings/Cash Credit

6 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank

7 Bank IFSC Code(applicable for NEFT )

8 Bank IFSC code(applicable for RTGS)  (Indian Financial System Code)

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B 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.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone No. with STD Code

Company Seal

**Bank Certificate**

We certify that \_\_\_\_\_ has an Account No \_\_\_\_\_ with us and we confirm that the bank details given above are correct as per our records.

Date:

(.....)

Place:

Signature

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call concerned purchase executive.

**ANNEXURE - V**  
**PRESENT PROCEDURE FOR SALE IN TRANSIT (HIGH SEA SALES)**

In case of High Sea Sales, vendor should submit following documents:

**1. ORIGINAL HIGH SEA SALES AGREEMENT**

- Sale agreement (on Rs. 200/- non-judicial stamp paper & notarised with 2 witnesses with identity) has to be signed between BHEL and the Party importing material. The date of the sale documents should be in between the date of House Air Way Bill / Bill of Lading and before landing of the goods in Indian origin.
- Following shall be included in the High Sea Sales Agreement:  
"THE BUYER ALSO UNDERTAKE DISCHARGES, THE OBLIGATION AND FULFILLMENT OF CONDITIONS, IF ANY, ATTACHED TO THE IMPORTATION, ASSESSMENT AND CLEARANCE OF THE GOODS IN TERMS CUSTOMS TARIFF ACT 1975, THE CUSTOMS ACT 1962 & RULES & REGULATIONS MADE THERE UNDER AND OTHER RELEVANT ACTS, ORDERS, NOTIFICATIONS".

**2. ORIGINAL INVOICES: INDIGENOUS RUPEE INVOICE & FOREIGN CURRENCY INVOICE**

- Prices should be C.I.F., designated airport/seaport basis.
- I.E.C., C.S.T., K.S.T. Nos. to be mentioned.
- Description of item (Nomenclature), Unit & Quantity in both the Foreign Currency & the Indigenous Invoice in Rupee shall be exactly as per Purchase Order Description of item, Quantity and Unit. The Indigenous Invoice value shall be exactly as per Purchase Order value.
- Seller should give Foreign Currency Invoice from the original consignor. The Foreign Currency Invoice value should be at least 2% (two per cent) less than the Indigenous Rupee Invoice value in equivalent foreign currency.

**4. ORIGINAL HOUSE AIR WAY BILL/ BILL OF LADING**

- The sale agents should duly endorse House Air Way Bill (HAWB) for air shipments or original Bill of Lading (O.B.L.) for sea shipments and Foreign Currency Invoice in favour of BHEL-EDN.

**5. ORIGINAL CARGO ARRIVAL NOTICE FROM FORWARDER.**

**6. ORIGINAL DELIVERY ORDER ISSUED IN NAME OF BHEL-EDN.**

**7. ORIGINAL PACKING LIST.**

**8. A LETTER TO THE COMMISSIONER OF CUSTOMS FOR EFFECTING ABOVE SALE.**

**9. A LETTER TO THE DEPUTY ASSESSOR (OCTROI) FOR EFFECTING ABOVE SALE IN FAVOUR OF BHEL.**

**REMARKS:** In case vendor needs any clarifications on the above, the same may be sought in writing.

<b>SI No</b>	<b>Name of Bank</b>
1	State Bank of India
2	Canara Bank
3	IDBI Bank Limited
4	ICICI Bank Limited
5	HDFC Bank Limited
6	Axis Bank
7	IndusInd Bank Limited
8	Bank of Baroda
9	Exim Bank
10	Indian Bank
11	Punjab National Bank
12	Union Bank of India
13	Yes Bank Limited
14	RBL Bank Ltd.
15	Indian Overseas Bank
16	Kotak Mahindra Bank Limited
17	Federal Bank Limited
18	Hongkong and Shanghai Banking Corporation Ltd

## BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To  
NAME  
& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at \_\_\_\_\_<sup>1</sup> through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at \_\_\_\_\_<sup>2</sup> hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated .....<sup>3</sup> valued at Rs.....<sup>4</sup> (Rupees -----)/FC.....(in words.....) for .....<sup>5</sup> (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to .....% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we, ....., (hereinafter referred to as the Bank), having registered/Head office at ..... and inter alia a branch at ..... being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -- -----<sup>6</sup> (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We the .....bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We .....BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including.....<sup>7</sup> and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the .....<sup>8</sup>we shall be discharged from all liabilities under this guarantee thereafter.

We, ..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....<sup>6</sup>
- b) This Guarantee shall be valid up to .....<sup>7</sup>
- c) Unless the Bank is served a written claim or demand on or before \_\_\_\_\_<sup>8</sup> all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, \_\_\_\_\_ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of  
(Name of the Bank)

Dated.....

Place of Issue.....

<sup>1</sup> NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

<sup>2</sup> NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

<sup>3</sup> DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

<sup>4</sup> CONTRACT VALUE

<sup>5</sup> PROJECT/SUPPLY DETAILS

<sup>6</sup> BG AMOUNT IN FIGURES AND WORDS

<sup>7</sup> VALIDITY DATE

<sup>8</sup> DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.
4. In Case of Bank Guarantees submitted by Foreign Vendors-
  - a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
  - b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)
    - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by any of the Consortium Banks only will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
    - b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at sl.no. b.1 will required to be followed.
    - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

## Annexure-VIII

F. No. DPE/3(3)/10-Fin.  
Government of India  
Ministry of Finance  
Department of Public Enterprises

Block No. 14, CGO Complex,  
Lodi Road, New Delhi-110003  
Dated the 29<sup>th</sup> May, 2023

To,

Chief Executives of all CPSEs

Subject:- Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017 - regarding

Sir/Madam,

The undersigned is directed to forward herewith a copy of Department of Expenditure O.M. dated 18<sup>th</sup> May, 2023 on the subject mentioned above for information and strict compliance.

Encl : As stated

  
(Kailash Bhandari)  
Deputy Director  
Tel : 2436-6247

Copy to :- Shri Kanwalpreet, Director, Department of Expenditure, Room No. 264-C,  
North Block, New Delhi.

No.F.1/4/2021-PPD  
Government of India  
Ministry of Finance  
Department of Expenditure  
Public Procurement Division  
\*\*\*\*\*

264-C, North Block, New Delhi.  
18.05.2023.

**OFFICE MEMORANDUM**

**Subject: Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.**

The undersigned is directed to refer two Preferential Procurement Orders mandated for the Public Procurement in India, namely:

- i. Public Procurement Policy for Micro and Small Enterprises (MSEs) Order dated 23.03.2012 (PPP-MSE Order) issued by Ministry of Micro, Small and Medium Enterprises (MoMSME) in exercise of the powers conferred in Section 11 of the MSME Development Act, 2006. (Last revised on 09.11.2018)
- ii. Public Procurement (Preference to Make in India) Order, 2017 (PPP-MII order), under Rule 153(iii) of the General Financial Rules (GFRs) 2017, approved by the Cabinet. Implementation of this PPP-MII order is monitored by Department for Promotion of Industry and Internal Trade (DPIIT). (Last revised on 16.09.2020.)

2. It has been brought to the notice of this Department that concurrent application of these two orders are creating confusion to the procuring entities and different procuring entities interpret them differently. In order to bring predictability both to the procuring entities as well as bidders, following guidelines are being issued.

**Guidelines**

3. The Class-I local suppliers, under PPP-MII Order, participating in any government tender, may or may not be MSEs, as defined under the MSME Act. Similarly, MSEs participating in any government tender, may or may not be Class-I local suppliers. Suppliers may be categorised in following four broad categories for consideration or applicability of purchase preference:

<b>Category</b>	<b>Terminology</b>
Supplier is both MSE & Class-I local supplier.	"MSE Class-I local supplier"
Supplier is MSE but not Class-I local supplier.	"MSE but non-Class-I local supplier"
Supplier is not MSE but is Class-I local supplier.	"Non-MSE but Class-I local supplier"
Supplier is neither MSE nor Class-I local.	"Non-MSE non-Class-I local supplier"

4. The applicability of PPP-MSE Order and PPP-MII Order in various scenarios, involving simultaneous purchase preference to MSEs and Class-I local suppliers under PPP-MSE Order and PPP-MII Order respectively, shall be as under:

a) *Items covered under Para 3(a) of PPP- MII Order, 2017 for which Nodal Ministry has notified sufficient local capacity and competition:* For these items, only Class-I local suppliers are eligible to bid irrespective of purchase value. Hence, Class-II local suppliers or Non-local suppliers, including MSEs which are Class-II local suppliers/ Non-local suppliers, are not eligible to bid. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is given to MSEs as per PPP-MSE Order. Balance quantity is to be awarded to the L-1 bidder.

b) *Items reserved exclusively for procurement from MSEs as per PPP-MSE Order:* These items are reserved exclusively for purchase from MSEs. Hence, non-MSEs are not eligible to bid for these items. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "MSE non-Class-I local supplier" - Purchase preference is to be given to Class-I local supplier as per PPP-MII Order. Balance quantity, is to be awarded to L-1 bidder.

c) *If items are neither notified for sufficient local capacity nor reserved for MSEs, then the process will be as follows:*

c (a) Items covered under Para 3A(b) of PPP-MII Order are divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is to be given to MSEs, if eligible, as per PPP-MSE Order. Balance quantity is to be awarded to L-1 bidder.
- (iii) L-1 is "MSE but non-Class-I local supplier" - Purchase preference is to be given to Class-I local suppliers, if eligible, as per PPP-MII Order. Balance quantity is to be awarded to L-1 bidder.
- (iv) L-1 is "Non-MSE non-Class-I local supplier" - Purchase preference is to be given to MSEs as per PPP-MSE Order. Thereafter, purchase preference is to be given to Class-I local suppliers for "50% of the tendered quantity minus quantity allotted to MSEs

above” as per PPP- MII Order. For the balance quantity, contract is to be awarded to L-1 bidder. (Kindly refer to the illustrative example in the annexure).

- c (b) Items covered under Para 3A(c) of PPP-MII Order, 2017 are non-divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:
- (i) L-1 is “MSE Class-I local supplier” - Contract is awarded to L-1.
  - (ii) L-1 is not “MSE Class-I local supplier” but the “MSE Class-I local supplier” falls within 15% margin of purchase preference - Purchase preference is to be given to lowest quoting “MSE Class-I local supplier”. If lowest quoting “MSE Class-I local supplier” does not accept the L-1 rates, the next higher “MSE Class-I local supplier” falling within 15% margin of purchase preference is to be given purchase preference and so on.
  - (iii) If conditions mentioned in sub paras (i) and (ii) above are not met i.e. L-1 is neither “MSE Class-I local supplier” nor “MSE Class-I local supplier” is eligible to take benefit of purchase preference, the contract is to be awarded/ purchase preference to be given in different possible scenarios as under:
    - A. L1 is “MSE but non-Class-I local supplier” or “Non-MSE but Class-I local supplier” – Contract is awarded to L1.
    - B. L1 is “Non-MSE non-Class-I local supplier” - First purchase preference to be given to MSE as per PPP-MSE Order. If MSE not eligible/ does not accept - purchase preference to be given to Class- I Local supplier as per PPP-MII Order. If Class-I Local supplier also not eligible/ does not accept – contract to be awarded to L-1.
- d) *Items reserved for both MSEs and Class-I local suppliers:* These items are reserved exclusively for purchase from MSEs as well as Class-I local suppliers. Hence, only “MSE Class-I local supplier” are eligible to bid for these items. Non-MSEs/Class-II local suppliers/ Non-local suppliers cannot bid for these items. Hence the question of purchase preference does not arise.
- e) Non-local suppliers, including MSEs falling in the category of Non-local suppliers, shall be eligible to bid only against Global Tender Enquiry.

*4*  
*18/5/2023*  
(Kanwalpreet)  
Director

Tel.: -223093811; email: - kanwal.irss@gov.in

To

1. Secretaries of all Central Government Ministries/ Departments.
2. Secretary Department of Public Enterprises with a request for issuing suitable instructions to all Central Public Sector Enterprises in this regard.

**Example explaining applicability in scenario explained in para 4 c (a)(iv)**

(Scenario: Divisible items, both MSEs as well as Class-I local suppliers eligible for purchase preference and L-1 is “Non-MSE non-Class-I local supplier”)

**Item** – Desktop computer

**Qty** – 50 Nos.

**Details of bids received**

Sr. No.	Name of bidder	Rates quoted	Price Ranking	Status of bidder
1.	A	100	L1	“Non-MSE non- Class-I local supplier”
2.	B	110	L2	“Non-MSE but Class-I local supplier”
3.	C	112	L3	“MSE but non- Class-I local supplier”
4.	D	115	L4	“Non-MSE but Class-I local supplier”
5.	E	118	L5	“MSE but non- Class-I local supplier”
6.	F	120	L6	“MSE Class-I local supplier”

1. In this case, first purchase preference is to be given to MSEs as per PPP-MSE Order for 25% of tendered quantity of 50 Nos. i.e. 12.5 Nos. (rounded off to the next whole number say 13 Nos). Accordingly, invite L3 (bidder C), whose quoted rates falls within 15% margin of purchase preference to match L1 price i.e. Rs. 100/- for quantity of 13 Nos. Bidder “E” and “F”, although MSEs, will not get purchase preference since their quoted rates don’t fall within 15% margin of purchase preference. Bidder C will be considered for order of 13 Nos. on confirmation of reduction of price.
2. For 50% of balance quantity of 37 number (tendered quantity of 50 – 13 awarded to bidder C; assuming bidder C has confirmed to accept L1 rates), purchase preference will be given to lowest Class-I local supplier as per PPP-MII Order. Accordingly, bidder B will be invited to match L-1 price for 50% of 37 Nos i.e. 18.5 (say 19 Nos of computers). If bidder “B” does not accept the L1 price i.e. price of Rs. 100/- per unit, next higher Class-I local supplier falling within 20% margin of purchase preference, i.e. bidder “D”, may be invited to match L-1 price for 19 Nos. of computers and so on.
3. For remaining quantity i.e. 18 Nos (50-13-19), the contract will be awarded to lowest quoting bidder i.e. Bidder “A”, who is L-1 in the example.

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## Annexure-X

### Restrictions under Rule 144(xi) of General Financial Rules, 2017 amendment dt: 23.07.2020

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :-
  - a. An entity incorporated, established or registered in such a country; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country; or
  - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
  - d. An entity whose *beneficial owner* is situated in such a country; or
  - e. An Indian (or other) agent of such an entity; or
  - f. A natural person who is a citizen of such a country; or
  - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The *beneficial owner* for the purpose of (iii) above will be as under:
  1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation--

    - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
    - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
  2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್  
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड

**Bharat Heavy Electricals Ltd.,  
 (A Government of India undertaking)  
 Electronics Division**

PB 2606 , Mysore Road Bengaluru , 560026 INDIA

CE: PR: 002- Rev 04

### **GENERAL COMMERCIAL CONDITIONS FOR CONTRACT**

These 'General Commercial Conditions for Contract for Purchase' herein after referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects/ customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bengaluru 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent/acceptance/ award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection/ Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.

#### Order of Precedence:

In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI / LOA, Special Conditions of Contract and General Conditions of Contract for commercial conditions; and specific agreement on technical conditions, RFQ/offer and specification for Technical Conditions.

#### Interpretation:

In the contract, except where the context requires otherwise:

- words indicating one gender include all genders;
- words indicating the singular also include the plural and words indicating the plural also include the singular;

- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- d) "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

#### **Applicable Conditions:**

1. **Price Basis:** All prices shall be firm until the purchase order is executed / completed in all respects. No price variations / escalation shall be permitted. For any delay at BHEL end towards issuing clearance for supply of spares for reasons attributable to BHEL/Customer, Contractor shall honor the PO prices for additional 01 year period from the date of expiry of contractual schedule and delivery schedule will be extended for such period of delay at BHEL end.
2. **Ordering and confirmation of Order:** Vendor shall send the order acceptance on their company letter head/ through e-mail within a week from the date of receipt of Purchase Order or such other period as specified/ agreed by BHEL. BHEL reserves the right to revoke the order placed if the order confirmation differs from the original order placed. The acceptance of goods/services/supplies by BHEL as well as payments made in this regard shall not imply acceptance of any deviations.  
The purchase order will be deemed to have been accepted if no communication to the contrary is received within one week (or the time limit as specified/agreed by BHEL) from the date of receipt of the purchase order.
3. **Documentation:** After receipt of Purchase Order, vendor should submit necessary documents (if & as applicable) like drawings specified, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.  
At any stage within the contract period, the vendor shall notify of any error, fault or other defect found in BHEL's documents /specifications or any other items for reference. If and to the extent that (taking account of cost and time) any vendor exercising due care would have discovered the error, fault or other defect when examining the documents/specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the vendor's documents, they shall be corrected at his cost, notwithstanding any consent or approval.
4. **Penalty:**
  - a. **Submission of Engineering documents as per PO:** After award of contract, Successful bidder shall submit complete set of documents (like drawings, bill of materials, datasheets, catalogues, quality plan, etc. as called in tender specification) for approval, within 14/21 days (as specified in SCC/Purchase Order) from the date of award of contract. Buyer shall issue manufacturing clearance along with approved documents within 60/75 days (as specified in SCC/Purchase Order) after receipt of documents from seller. Any delay by buyer/consignee in providing approved documents beyond specified period shall be on the part of buyer and BHEL will extend the delivery period for such period of delay.  
In case of any corrections in documents to be incorporated by seller for approval of document based on end-user/consultant/buyer comments, revised documents have to be submitted by seller incorporating the comments within 07/14 days (as specified in SCC) from the date of receipt of the same.  
Seller shall be required to commence manufacturing only after receipt of approved documents from BHEL.
  - b. **Liquidated Damages (LD):** Delivery will commence from the date of placement of Purchase Order. If the seller fails to deliver any or all of the Goods within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated damages for the delay @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of the delayed quantity without any controversy/dispute of any sort whatsoever. GST as applicable will be recovered along with LD amount.

Extension of Delivery Period: Buyer may, on request of the Seller or otherwise, extend the delivery date subject to Force Majeure conditions and/or also on the ground/reasons of delay attributable to the Buyer / Consignee.

5. Contract variations (Increase or decrease in the scope of supply): BHEL may vary the contracted scope as per requirements at site. If vendor is of the opinion that the variation has an effect on the agreed price or delivery period, BHEL shall be informed of this immediately in writing along with technical details. Where unit rates are available in the Contract, the same shall be the basis for such additional work. Vendor shall not perform additional work before BHEL has issued written instructions/ amendment to the Purchase Order to that effect. The work which the vendor should have or could have anticipated in terms of delivering the service(s) and functionality (i.e.) as described in this agreement, or which is considered to be the result of an attributable error on the vendor's part, shall not be considered additional work.
6. a. Pre-dispatch inspection at seller premises: Before dispatch, the goods will be inspected by Buyer/ Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at the seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specification. For in-house testing, the sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer shall notify the Seller about the Authorized Representative / Nominated External Inspection Agency and the date of testing. Scope of inspection is limited to 'approved quality plan or QA checklist or Purchase Specification'. While bidding the sellers should take into account 12 days (unless otherwise specified in SCC) for arranging inspection from the date of email offering the goods for inspection. Any delay in arranging inspection beyond the specified period due to reasons not attributable to seller, shall be on the part of buyer and BHEL will extend the delivery period for such period of delay.
- b. Material Dispatch Clearance Certificate (MDCC): Seller should take into account 10 days (unless otherwise specified in SCC) for issuance of dispatch clearance by BHEL from the date of successful inspection report. Any delay in issue of MDCC beyond the specified period shall be on the part of buyer and BHEL will extend the delivery period of such period of delay.

BHEL reserves the right for conducting repeat test, if required. All costs related to inspections & re-inspections shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.

7. Transit Insurance: Transit insurance coverage between vendor's works and project site shall be to the account of BHEL, unless specifically agreed otherwise. However, vendor shall send intimation directly to insurance agency (as mentioned in dispatch instructions issued by BHEL) through fax/courier/e-mail, immediately on dispatch of goods for covering insurance. A copy of such intimation sent by vendor to insurance agency shall be given to BHEL along with dispatch documents. Dispatch documents will be treated as incomplete without such intimation copy. BHEL shall not be responsible for sending intimations to insurance agency on behalf of the vendor.
8. Mode of dispatch:  
 Indigenous Scope: By road on Door Delivery Consignee Copy attached basis through your approved transporter (unless otherwise indicated in Dispatch Instructions), only on receipt of Despatch Clearance from BHEL.  
 Imported Scope: By Air/Sea through BHEL approved Freight Forwarder/supplier approved Consolidator respectively as per agreed contractual terms, only on receipt of Dispatch Clearance from BHEL.
9. Changes in Statutory levies:  
 If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the execution of Contract, which was or will be assessed on the bidder in connection with performance of the Contract, an equitable

adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction there from, as the case may be. However, these adjustments would be restricted to direct transactions between BHEL and the bidder /agent of foreign bidder (if applicable). These adjustments shall not be applicable on procurement of raw materials, intermediary components etc. by the bidder /agent.

10. Availing duty/tax exemption benefits by bidder, wherever applicable: BHEL shall issue the required Certificate/s, as per relevant policies of the Govt. of India, to facilitate the bidders to avail any such benefits under the Contract. In case of failure of the bidders to receive the benefits partly or fully from the Govt. of India and/or in case of any delay in receipt of such benefits, BHEL shall neither be liable nor responsible in any manner whatsoever.
11. Taxes against sub-vendor dispatches: All taxes/levies, as applicable in respect of all components, equipments and material to be despatched directly from the sub-vendor's works to Site irrespective of the fact whether such taxes and levies are assessable and chargeable on Vendor or the BHEL, shall be to the vendor's account and no separate claim in this regard will be entertained by BHEL.
12. High Sea Sales (HSS): Customs clearance of the consignment landed on Indian Sea/Air ports will be done by BHEL based on the original HSS documents provided by vendors.  
Any delay in submission of complete/correct HSS documents to BHEL may incur demurrage charges. All demurrage charges on account of incomplete /incorrect HSS documents submission by vendor will be to vendor's account and all such charges will be recovered from any of the available vendor bills with BHEL.
13. Packaging and dispatch: The Seller shall package the goods safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea/ Air / Rail/ Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures/ hooks and sling marks as may be required for easy and safe handling. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.  
The packing, shipping, storage and processing of the goods must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. Any Imported/Physical Exports items packed with raw/ solid wood packing material should be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary/ Fumigation certificate. If safety information sheets (MSDS – Material Safety Data Sheet) exist for an item or the packaging, vendor must provide this information without fail along with the consignment.  
Each package must be marked with Consignee name, Purchase order number, Package number, Gross weight and net weight, dimensions (LxBxH) and Seller's name. Packing list of goods inside each package with PO item number and quantity must also be fixed securely outside the box to indicate the contents of each box. Total number of packages in the consignment must also be indicated in the packing list.  
Separate packing & identification of items should be as follows.
  1. Main Scope - All items must be tagged with part no. & item description.
  2. Commissioning accessories/spares - All items must be tagged with part no. & item description.
  3. Mandatory spares - All items must be tagged with part no. & item description.
 Nevertheless, vendor shall adhere to dispatch & packing instructions issued by BHEL at the time of dispatch.
14. Assignment of Rights & Obligations; Subcontracting: Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by the BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.
15. Progress report: Vendor shall render such report as to the progress of work and in such form as may be called for by the concerned purchase officer from time to time. The submission and acceptance of such reports shall not prejudice the rights of BHEL in any manner.

16. Non-disclosure and Information Obligations: Vendor shall provide with all necessary information pertaining to the goods as it could be of importance to BHEL. Vendor shall not reveal any specified confidential information that may be divulged by BHEL to Vendor's employees not involved with the tender/ contract & its execution and delivery or to third parties, unless BHEL has agreed to this in writing beforehand. Vendor shall not be entitled to use the BHEL name in advertisements and other commercial publications without prior written permission from BHEL.
17. Cancellation /Termination of contract: BHEL shall have the right to completely or partially terminate the agreement by means of written notice to that effect. Termination of the Contract, for whatever reason, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination. BHEL shall have the right to cancel/foreclose the Order/ Contract, wholly or in part, in case it is constrained to do so on account of any decline, diminution, curtailment or stoppage of the business.
18. Risk Purchase Clause: In case of failure of supplier, BHEL at its discretion may make purchase of the materials / services not supplied / rendered in time at the RISK & COST of the supplier. Under such situation, the supplier who fails to supply the goods in time shall be wholly liable to make good to BHEL any loss due to risk purchase.  
In case of items demanding services at site like erection and commissioning, vendor should send his servicemen/representatives within 7 days from the service call. In case a vendor fails to attend to the service call, BHEL at its discretion may also make arrangements to attend such service by other parties at the **RISK & COST** of the supplier. Under such situation the supplier who fails to attend the service shall be wholly liable to make good to BHEL any loss due to risk purchase/service including additional handling charges due to the change.
19. Shortages: In the event of shortage on receipt of goods and/or on opening of packages at site, all such shortages, caused by supplier's act or omission, shall be made good at the cost of seller within a reasonable time that BHEL may allow from such intimation.  
Transit Damages: In the event of receipt of goods in damaged condition or having found them so upon opening of packages at site, supplier shall make good of all such damages within a reasonable time from such intimation by BHEL. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will be reimbursed to supplier.
20. Remedial work: Notwithstanding any previous test or certification, BHEL may instruct the vendor to remove and replace materials/goods or remove and re-execute works/services which are not in accordance with the purchase order. Similarly, BHEL may ask the vendor to supply materials or to execute any services which are urgently required for any safety reasons, whether arising out of or because of an accident, unforeseeable event or otherwise. In such an event, Vendor shall provide such services within a reasonable time as specified by BHEL.
21. Indemnity Clause: Vendor shall comply with all applicable safety regulations and take care for the safety of all persons involved. Vendor is fully responsible for the safety of its personnel or that of his subcontractor's men / property, during execution of the Purchase Order and related services. All statutory payments including PF, ESI or other related charges have to be borne by the vendor. Vendor is fully responsible for ensuring that all legal compliances are followed in course of such employment. Vendor shall fully indemnify and keep indemnified BHEL against all claims of whatsoever nature arising during the course and out of execution of this Order/Contract.
22. Product Information, Drawings and Documents: All specified drawings, technical documents or other technical information received by Vendor from BHEL or vice versa shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the Disclosing party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract. Vendor, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit and enable BHEL to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in as many numbers of copies as may be agreed upon.

All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the Contract shall continue to be the property of the disclosing party.

23. **Intellectual Property Rights, Licenses:** If any Patent, design, Trade mark or any other intellectual property rights apply to the delivery (goods/related service) or accompanying documentation shall be the exclusive property of the Vendor and BHEL shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise during the execution of the Purchase Order/ contract for delivery by vendor and/or by its employees or third parties involved by the vendor for performance of the agreement shall belong to BHEL. Vendor shall perform everything necessary to obtain or establish the above mentioned rights. The Vendor guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Vendor shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Vendor shall indemnify BHEL against any (alleged) claims by third parties in this regard and shall reimburse BHEL for any damages suffered as a result thereof.
24. **Force Majeure:** If at any time during the continuance of the contract, the performance in whole or in part by either party of any obligation under this Contract shall be prevented or delayed by the reasons of any war, hostility, acts of the public enemy, epidemics, civil commotion, sabotage, fires, floods, explosion, quarantine restrictions, strikes, lockouts or act of God provided notice of happening of such event duly evidenced with documents is given by one party to the other within 10 days from the date of occurrence thereof, neither party shall be by reasons of such event, be entitled to terminate the contract not shall either party have any claim for damages against the other in respect of such non-performance after such event has come to an end or ceased to exist and the decision of the Buyer as to whether the deliveries have been so resumed or not, shall be final and conclusive.  
If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.  
Notwithstanding above provisions, in an event of Force Majeure, BHEL reserves for itself the right to cancel the order/ contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules.
25. **Warranty:**  
Wherever required, and so provided in the specifications/ Purchaser Order, the Seller shall ensure that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance.  
Unless otherwise specified in SCC, warranty period shall be applicable for a period of 24 months from the date of delivery of goods or 18 months from the date of commissioning of goods, whichever is earlier.  
The warranty period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable warranty period.
26. **Limitation of Liability:** Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or wilful misconduct.  
The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.
27. **Liability during warranty:** Vendor shall arrange replacement / repair of all the defective materials / services under its obligation during the warranty period. The rejected goods shall be taken away by vendor and replaced / repaired. In the event of the vendor's failure to comply, BHEL may take appropriate action including disposal of rejections and replenishment by any other sources at the cost and risk of the vendor. In case, defects attributable to vendor are detected during Warranty period or where the commissioning call is issued within the warranty period, vendor shall be responsible for replacement/ repair of the goods as required by BHEL at vendor's cost even after expiry of warranty period.  
Further if the equipment or any part thereof cannot be used by reason of such defect and/or making good of such defect, the warranty period of the equipment or such part, as the case may be, shall be extended by a period equal to the period during which the equipment or such part cannot be used by BHEL because of any of the aforesaid reasons. Upon correction of the defects in the facilities or any part thereof by

repair/replacement, such repair/replacement shall have the warranty period for a period of twelve (12) months from the time such replacement/repair of the equipment or any part thereof has been completed.

28. Liability after warranty period: At the end of the warranty, the Vendor's liability ceases except for latent defects. For the purpose of this clause, latent defects shall be the defects inherently lying within the material or arising out of design deficiency which do not manifest themselves during the warranty Period, but later. The Contractor's liability for latent defects warranty for the equipment including spares shall be limited to a period of six months from the end of the warranty period of the respective equipment including spares or first time commissioning, whichever is later but not later than one (01) year from the date of expiry of warranty period.
29. Compliance with Laws: Vendor shall, in performing the contract, comply with all applicable laws. The vendor shall make all remittances, give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the laws in relation to the execution and completion of the contract and for remedying of any defects; and the Contractor shall indemnify and hold BHEL harmless against and from the consequences of any failure to do so.
30. Settlement of Disputes: Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the terms and conditions and instructions herein before mentioned and as to the completion of supplies/work/services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply/work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).
31. Arbitration Clause in case of Contract with vendors other than Public Sector Enterprise (PSE) or a Government Department:

Arbitration & Conciliation:

The parties shall attempt to settle any disputes or difference arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, or in connection with this contract through friendly discussions. In case no amicable settlement can be reached between the parties through such discussions, in respect of any dispute; then, either Party may, by a notice in writing to the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL-EDN. Such Sole Arbitrator appointed, shall conduct the arbitration in English language.

The Arbitrator shall pass a reasoned award and the award of the Arbitration shall be final and binding upon the Parties.

Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Bengaluru.

The cost of arbitration shall be borne as decided by the Arbitrator upon him entering the reference.

Subject to the Arbitration Clause as above, the Courts at Bengaluru alone shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.

Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the parties shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and efficiency in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

Arbitration Clause in case of Contract with a Public Sector Enterprise (PSE) or a Government Department:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either party for Arbitration to the Sole

Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any Party aggrieved by such Award may make further reference for setting aside or revision of the Award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the Parties hereto finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.'

32. Applicable Laws and Jurisdiction of Courts: Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in Bengaluru alone shall have jurisdiction to consider over any matters touching upon this contract.
33. General Terms: That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents.  
That the headings used in this agreement are for convenience of reference only.  
That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.
34. Clause reserved.
35. NO CLAIM FOR INTEREST OR DAMAGE:
- 1) Interest on Money due to the Seller/Supplier/Vendor: Vendor shall not be entitled to any interest or damage in case of any delay on the part of the BHEL to pay the amount due upon measurement or as per Contract or otherwise. Vendor shall also not be entitled to interest upon any guarantee / security / retention money or payments in arrears or upon any balance which may on the final settlement of his account be due to him.
  - 2) No Claim for Interest or Damage: No claim for interest or damage will be entertained or be payable by BHEL in interest of any amount or balance which may be lying with BHEL or may become due upon settlement/adjudication of any dispute, difference or misunderstanding between the parties by way of arbitration or court proceedings or otherwise or in respect of any delay or omission on the part of the Employer in making intermediate or final payment or in respect of any amount / damage which may be claimed through arbitration or court proceedings or in any other respect whatsoever.



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**TECHNICAL SPECIFICATION  
FOR  
RATE CONTRACT  
OF  
STATIONARY NICKEL-CADMIUM POCKET  
PLATE- HIGH DISCHARGE TYPE BATTERIES  
FOR 1 YEAR**

REVISION:00

CHECKED & APPROVED

AMIT KUMAR SHARMA

PREPARED

ISSUED

DATE

A.SARAVANA  
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13/05/26



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## CONTENTS

SI No.	Description	Reference
1	Pre-Qualification Requirements	CE/416/RC/NICDBAT/PQR, Rev.00
2	Scope supply	CE/416/RC/NICDBAT/SOS, Rev.00
3	Technical Requirements	CE/416/RC/NICDBAT/TR, Rev.00
4	Battery sizing calculation methodology	CE/416/RC/NICDBAT/BS, Rev.00

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## PRE-QUALIFICATIONS REQUIREMENTS

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### Pre-Qualification Requirements (PQR) of Bidders

The Battery system offered for this tender shall have at least ONE (1) year satisfactory operation prior in a power plant or industrial installations as on techno-commercial bid opening date.

Satisfactory Performance Certificate from End User shall be submitted for verification.

In absence of this Satisfactory Performance Certificate from End-User, technical offers submitted by any vendor will get rejected.

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## SCOPE OF SUPPLY

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**SCOPE OF SUPPLY**

**Battery shall be as per Technical Requirement Ref: CE/416/RC/NICDBAT/TR and detailed Scope of Supply is mentioned below:**

High discharge battery models are grouped in categories as shown in below table-A. Tentative total AH requirement for each group and against each unit is indicated. PO for shall be placed by respective unit. List of Tentative Projects with unit wise break up is provided Annexure-I. However, the rate contract can be used for supply of batteries upto 3 more projects.

SL No.	Battery AH Range	GROUP	Qty	UOM
1	30-50	G1	63,750	Ah
2	51-84	G2	1,50,000	Ah
3	85-120	G3	2,00,000	Ah
4	121-155	G4	2,00,000	Ah
5	156-265	G5	4,23,925	Ah
6	266-330	G6	8,00,000	Ah
7	331-491	G7	9,00,000	Ah
8	492-655	G8	20,62,960	Ah
9	656-825	G9	28,00,000	Ah
10	826-990	G10	2,00,000	Ah
11	Accessories per battery bank		275	Set
12	E&C charges for per set of Battery Bank upto 78 cells of Battery AH from Group 1-6 for NTPC projects		90	Lumpsum
13	E&C charges for per set of Battery Bank upto 78 cells of Battery AH from Group 7-10 for NTPC projects		30	Lumpsum
14	E&C charges for per set of Battery Bank having 79-290 cells with Battery AH from Group 1-6 for NTPC projects		20	Lumpsum
15	E&C charges for per set of Battery Bank having 79-290 cells with Battery AH from Group 7-10 for NTPC projects		5	Lumpsum
16	E&C charges for per set of Battery Bank upto 78 cells of Battery AH from Group 1-6 for non-NTPC projects		80	Lumpsum
17	E&C charges for per set of Battery Bank upto 78 cells of Battery AH from Group 7-10 for non-NTPC projects		35	Lumpsum
18	E&C charges for per set of Battery Bank having 79-290 cells with Battery AH from Group 1-6 for		20	Lumpsum

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	non-NTPC projects			
19	E&C charges for per set of Battery Bank having 79-290 cells with Battery AH from Group 7-10 for non-NTPC projects		30	Lumpsum
20	Intercell/ Interblock connector for spares		400	Nos
21	Interpoll/Equalizing connector of cells from Group 1-6 for spares		200	Nos
21	Interpoll/Equalizing connector of cells from Group 7-10 for spares		200	Nos
22	Stand insulator for spares		400	Nos
23	Cell insulator for spares		200	Nos
24	Electrolyte, in case if required extra		1000	Litres
25	Mandatory spares requirement for each unit of BHEL PESD for Hindalco Aditya (3x150 MW)		3	Lot

Note:

- Bidder shall provide unit rate in "Rs per cell per AH" for each group of Battery cell as per table above.
- On placement of LoA, BHEL shall calculate the total price of a battery bank as follows:  

$$\text{Price per Battery Bank} = (\text{No. of cells required for UPS/Charger}) \times (\text{Price in Rs per cell per Ah} \times (\text{Battery Model (Ah) selected}))$$
- Battery model for various Projects shall be calculated on basis of technical specification and battery sizing criteria in respective Project's contract specification.
- Bidder shall quote for each line item of the Table A. Partial offer against this requirement shall lead to rejection of bid.
- Permissible tolerance of ordering shall be +/-25% of total quantity of individual line item. In case if a BHEL unit is ordering beyond the tolerance limit for an individual line item of that particular unit requirement, clearance from BHEL EDN shall be obtained.
- Except for PESD scope, Intercell/ Interblock connectors & Stand insulator/cell insulator, the per cell per Ah price provided by bidder shall also be used for placement of Mandatory spares order. For these 3 line items, unit rates provided in table-A shall be used for ordering under Mandatory spares. Spare cell shall be provided with respective Interpoll/Equalizing connectors. Tentative requirement of Mandatory spares of projects is listed below.  
For balance projects, spares PO will be released as per respective contract specification.
- Wherever single block cells are available for required capacity, the same shall be preferred for ordering over block cells. BHEL's decision on such selection shall be final and binding to selected bidder.
- E&C stands for Erection Supervision & Commissioning
- The per cell per Ah price quoted for above table shall include cost of battery cells, connectors, cables, battery stand, insulators, electrolyte, nuts& bolts, washer.

**ANNEXURE-I TO SCOPE OF SUPPLY OF TECHNICAL SPECIFICATION**

BHEL UNIT	PRJECT	LOCATION	Number of cells	Group	Total AH/Bank	No.of Battery Bank	Total AH for location
EDN	Lara 2x800	cs	180	G2	13680	1	13680
EDN	Lara 2x800	WS	180	G3	37800	1	37800
EDN	Lara 2x800	chp	180	G6	56700	1	56700
EDN	Lara 2x800	fgd	287	G6	90405	1	90405
EDN	Lara 2x800	CLASSIFIER MCC	19	G7	7467	2	14934
EDN	Lara 2x800	MAKE UP WS	19	G2	1520	2	3040
EDN	Lara 2x800	AWRS	19	G2	1520	2	3040
EDN	Lara 2x800	CANTEEN MCC	19	G3	2090	2	4180
EDN	Lara 2x800	BUNKER MCC & CPU REGEN	19	G8	10070	2	20140
EDN	Lara 2x800	TRACK HOPPER	19	G6	5700	2	11400
EDN	Lara 2x800	AHS MCC	19	G6	5510	2	11020
EDN	Lara 2x800	SERVICE BLD MCC	19	G5	4845	2	9690
EDN	Lara 2x800	ADMIN BUILDING MCC	19	G5	4845	2	9690
EDN	Lara 2x800	CWPH	19	G4	2470	2	4940
EDN	Lara 2x800	SILO MCC	19	G5	4845	2	9690
EDN	Lara 2x800	CRUSHER HOUSE MCC	19	G5	4845	2	9690
EDN	Lara 2x800	ESP&FGD-1	38	G9	29830	2	59660
EDN	Lara 2x800	ESP&FGD-2	38	G9	22800	2	45600
EDN	Lara 2x800	DM/PT	19	G10	17480	2	34960
EDN	Lara 2x800	CLO2/CWPT	19	G5	3420	2	6840
EDN	Lara 2x800	CHP RUN OFF WTP	19	G1	855	2	1710
EDN	Lara 2x800	RWPH	19	G2	1083	2	2166
EDN	Lara 2x800	ETP	19	G1	855	2	1710
EDN	Lara 2x800	FOPH &AUX	19	G5	3990	2	7980
EDN	Singrauli 2x800	cs	180	G2	13680	1	13680
EDN	Singrauli 2x800	WS	180	G3	37800	1	37800
EDN	Singrauli 2x800	chp	180	G6	56700	1	56700
EDN	Singrauli 2x800	fgd	287	G6	90405	1	90405
EDN	Singrauli 2x800	CLASSIFIER MCC	19	G7	7467	2	14934
EDN	Singrauli 2x800	MAKE UP WS	19	G2	1520	2	3040
EDN	Singrauli 2x800	AWRS	19	G2	1520	2	3040
EDN	Singrauli 2x800	CANTEEN MCC	19	G3	2090	2	4180
EDN	Singrauli 2x800	BUNKER MCC & CPU REGEN	19	G8	10070	2	20140
EDN	Singrauli 2x800	TRACK HOPPER	19	G6	5700	2	11400
EDN	Singrauli 2x800	AHS MCC	19	G6	5510	2	11020
EDN	Singrauli 2x800	SERVICE BLD MCC	19	G5	4845	2	9690
EDN	Singrauli 2x800	ADMIN BUILDING MCC	19	G5	4845	2	9690
EDN	Singrauli 2x800	CWPH	19	G4	2470	2	4940
EDN	Singrauli 2x800	SILO MCC	19	G5	4845	2	9690
EDN	Singrauli 2x800	CRUSHER HOUSE MCC	19	G5	4845	2	9690
EDN	Singrauli 2x800	ESP&FGD-1	38	G9	29830	2	59660
EDN	Singrauli 2x800	ESP&FGD-2	38	G9	22800	2	45600
EDN	Singrauli 2x800	DM/PT	19	G10	17480	2	34960
EDN	Singrauli 2x800	CLO2/CWPT	19	G5	3420	2	6840
EDN	Singrauli 2x800	CHP RUN OFF WTP	19	G1	855	2	1710
EDN	Singrauli 2x800	RWPH	19	G2	1083	2	2166
EDN	Singrauli 2x800	ETP	19	G1	855	2	1710
EDN	Singrauli 2x800	FOPH &AUX	19	G5	3990	2	7980
EDN	Koderma 2x800	cs	180	G2	13680	1	13680
EDN	Koderma 2x800	WS	180	G3	37800	1	37800
EDN	Koderma 2x800	chp	180	G6	56700	1	56700
EDN	Koderma 2x800	fgd	287	G6	90405	1	90405
EDN	Koderma 2x800	CLASSIFIER MCC	19	G7	7467	2	14934
EDN	Koderma 2x800	MAKE UP WS	19	G2	1520	2	3040
EDN	Koderma 2x800	AWRS	19	G2	1520	2	3040
EDN	Koderma 2x800	CANTEEN MCC	19	G3	2090	2	4180
EDN	Koderma 2x800	BUNKER MCC & CPU REGEN	19	G8	10070	2	20140
EDN	Koderma 2x800	TRACK HOPPER	19	G6	5700	2	11400
EDN	Koderma 2x800	AHS MCC	19	G6	5510	2	11020
EDN	Koderma 2x800	SERVICE BLD MCC	19	G5	4845	2	9690
EDN	Koderma 2x800	ADMIN BUILDING MCC	19	G5	4845	2	9690
EDN	Koderma 2x800	CWPH	19	G4	2470	2	4940
EDN	Koderma 2x800	SILO MCC	19	G5	4845	2	9690
EDN	Koderma 2x800	CRUSHER HOUSE MCC	19	G5	4845	2	9690
EDN	Koderma 2x800	ESP&FGD-1	38	G9	29830	2	59660
EDN	Koderma 2x800	ESP&FGD-2	38	G9	22800	2	45600
EDN	Koderma 2x800	DM/PT	19	G10	17480	2	34960
EDN	Koderma 2x800	CLO2/CWPT	19	G5	3420	2	6840
EDN	Koderma 2x800	CHP RUN OFF WTP	19	G1	855	2	1710
EDN	Koderma 2x800	RWPH	19	G2	1083	2	2166

EDN	Koderma 2x800	ETP	19	G1	855	2	1710
EDN	Koderma 2x800	FOPH &AUX	19	G5	3990	2	7980
EDN	Sipat 1x800/Yamunanagar 1x800	cs	180	G2	13680	1	13680
EDN	Sipat 1x800/Yamunanagar 1x800	WS	180	G3	37800	1	37800
EDN	Sipat 1x800/Yamunanagar 1x800	chp	180	G6	56700	1	56700
EDN	Sipat 1x800/Yamunanagar 1x800	fgd	287	G6	90405	1	90405
EDN	Sipat 1x800/Yamunanagar 1x800	CLASSIFIER MCC	19	G7	7467	2	14934
EDN	Sipat 1x800/Yamunanagar 1x800	MAKE UP WS	19	G2	1520	2	3040
EDN	Sipat 1x800/Yamunanagar 1x800	AWRS	19	G2	1520	2	3040
EDN	Sipat 1x800/Yamunanagar 1x800	CANTEEN MCC	19	G3	2090	2	4180
EDN	Sipat 1x800/Yamunanagar 1x800	BUNKER MCC & CPU REGEN	19	G8	10070	2	20140
EDN	Sipat 1x800/Yamunanagar 1x800	TRACK HOPPER	19	G6	5700	2	11400
EDN	Sipat 1x800/Yamunanagar 1x800	AHS MCC	19	G6	5510	2	11020
EDN	Sipat 1x800/Yamunanagar 1x800	SERVICE BLD MCC	19	G5	4845	2	9690
EDN	Sipat 1x800/Yamunanagar 1x800	ADMIN BUILDING MCC	19	G5	4845	2	9690
EDN	Sipat 1x800/Yamunanagar 1x800	CWPH	19	G4	2470	2	4940
EDN	Sipat 1x800/Yamunanagar 1x800	SILO MCC	19	G5	4845	2	9690
EDN	Sipat 1x800/Yamunanagar 1x800	CRUSHER HOUSE MCC	19	G5	4845	2	9690
EDN	Sipat 1x800/Yamunanagar 1x800	ESP&FGD-1	38	G9	29830	2	59660
EDN	Sipat 1x800/Yamunanagar 1x800	ESP&FGD-2	38	G9	22800	2	45600
EDN	Sipat 1x800/Yamunanagar 1x800	DM/PT	19	G10	17480	2	34960
EDN	Sipat 1x800/Yamunanagar 1x800	CLO2/CWPT	19	G5	3420	2	6840
EDN	Sipat 1x800/Yamunanagar 1x800	CHP RUN OFF WTP	19	G1	855	2	1710
EDN	Sipat 1x800/Yamunanagar 1x800	RWPH	19	G2	1083	2	2166
EDN	Sipat 1x800/Yamunanagar 1x800	ETP	19	G1	855	2	1710
EDN	Sipat 1x800/Yamunanagar 1x800	FOPH &AUX	19	G5	3990	2	7980
EDN	Yamunanagar 1x800	MAIN PLANT	287	G8	176505	1	176505
EDN	Yamunanagar 1x800	TG1	19	G9	14345	2	28690
EDN	Yamunanagar 1x800	TG2	19	G9	14345	2	28690
EDN	Yamunanagar 1x800	SG2	38	G9	28690	2	57380
EDN	Yamunanagar 1x800	SG1	38	G9	28690	2	57380
EDN	Yamunanagar 1x800	BOP1	38	G9	30400	2	60800
EDN	Yamunanagar 1x800	BOP2	38	G9	30400	2	60800
EDN	Yamunanagar 1x800	SAC	38	G9	27550	2	55100
EDN	Mirzapur 2x800	Unit-1	287	G9	219555	2	439110
EDN	Mirzapur 2x800	Unit-2	287	G9	219555	2	439110
EDN	Mirzapur 2x800	CWPH/IDCT	180	G2	10260	2	20520
EDN	Kawai II 2x800	Unit-1	287	G9	219555	2	439110
EDN	Kawai II 2x800	Unit-2	287	G9	219555	2	439110
EDN	Kawai II 2x800	CWPH/IDCT	180	G2	10260	2	20520
EDN	HINDALCO LAPANGA 3x150MW	Unit	287	G7	115700	6	694200
EDN	Bina	Unit	287	G8	152110	2	304220
EDN	Bina	Offsite	180	G5	38340	2	76680
Bhopal	BHEL Bhopal	-	25	G1	1375	10	13750
Bhopal	BHEL Bhopal	-	87	G5	23925	1	23925
PESD	HINDALCO LAPANGA 3x150MW	Unit& Station	171	G8	88065	12	1056780



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**Mandatory spares requirements for Adani- Projects:**

A13	UPS Battery	
i	Cell Insulators (separators)	2 nos or 10% of installed quantity of cell insulators, whichever is higher
ii	Stand insulators	2 nos or 10% of installed quantity of stand insulators, whichever is higher
iii	Connectors with nuts and bolts, washers, etc	2 nos or 10% of installed quantity of connectors (along with applicable accessories), whichever is higher
iv	Battery Cells	2 nos or 5% of installed quantity whichever is higher
	Interconnecting cell strips	10 nos.
	Vent caps	10 nos.
	Hydrometer	1 no.
	Rubber gloves	2 pairs
	Apron, Googles	2 Sets
	Thermometer	1 no.
	Cell lifting puller	1 no.

**Mandatory spares requirements for NTPC/ DVC- Koderma Projects:**

Batteries -2 Nos. of each type and rating.

**Mandatory spares requirements for HPGCL Yamunanagar Projects:**

Battery cells complete with contactor, cover plates etc.- Ten (10) percent of each type &amp; Size installed.

**Mandatory spares requirements for BHEL Bhopal:**

- Battery Cells 10% of the installed quantity.
- The cells should be shipped only in dry condition. Necessary electrolyte for make-up shall be supplied separately with 20% extra.

**Mandatory spares BOM requirement for each unit of BHEL PESD- Hindalco Aditya (3x150 MW)**

Sl. No.	Item Description	Qty
1	Connectors with Nuts & Bolts	3%
2	Vent Plugs	3%
3	Cell container empty	4 nos of each size and rating

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## GENERAL TECHNICAL REQUIREMENTS

1.1 Only the type tested (in the last 10 years) cell plates will be acceptable unless otherwise decided by the purchaser in special circumstances.

1.2 In case, there is any contradiction in any parameters/specification, the most stringent shall be considered as final and shall be offered accordingly.

## 2.0 DOCUMENTS TO BE FURNISHED

### 2.1 Along with technical offer:

- a) Compliance to technical specification or Deviation list
- b) Scope of supply
- c) Catalogue
- d) All supporting documents for battery sizing such as TCF, SOC, K factors etc.

2.2 **After placement of Purchase Order:** For BHEL/CUSTOMER approval, vendor must send the datasheet/drawings, quality plan, TTR vide e-mail.

2.3 **Along with the materials being dispatched:** Vendor must send the following “As Built & Approved” status documents one (1) in soft copy & one (1) in hard copy.

- (a) Instruction/O&M Manual
- (b) Bill of Material
- (c) Data Sheets
- (d) Technical literatures/Catalogs
- (e) Drawings GA/layout/wiring/interconnection/schematic, etc.

2.4 **After despatch of material within 1 week :** Vendor must send the following “As Built & Approved” status documents one (1) in soft copy to BHEL-EDN.

- (a) Instruction/O&M Manual
- (b) Bill of Material
- (c) Data Sheets
- (d) Technical literatures/Catalogs
- (e) Drawings GA/layout/wiring/interconnection/schematic, etc.



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# TECHNICAL REQUIREMENTS

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## 1.0 GENERAL TECHNICAL REQUIREMENTS.

### CODES AND STANDARDS

All standards, specifications and codes of practice referred to herein, shall be the latest editions including all applicable official amendments and revisions as on date of opening of techno-commercial bid.

In case of conflict between this specification and those (IS codes, Standards etc.) referred to herein, the former shall prevail. All works shall be carried out as per the following standards and codes:

- IEC 60623 / IS 10918 Specification for vented type Nickel Cadmium Batteries.
- IS 1069 Quality tolerances for water for storage batteries
- IEC 60993 Electrolyte for vented Nickel-Cadmium cells
- Indian electricity rules
- Indian Electricity Acts

Equipment complying with other internationally accepted standards such as IEC., BS, VDE etc. will also be considered if they ensure performance and constructional features equivalent or superior to standards listed above. In such a case, the Bidder shall clearly indicate the standard(s) adopted, furnish a copy in English of the latest revision of the standards along with copies of all official amendments and revisions in force as on date of opening of techno-commercial bid and shall clearly bring out the salient features for comparison.

### Equipment

DC Batteries shall be stationary Nickel-Cadmium type conforming to conform to the latest edition of IS: 10918 including all applicable official amendments. The batteries shall be discharge performance type.

DC batteries shall be suitable for standby duty and suitable for continuous operation. The batteries shall normally be permanently disconnected to the load in parallel with a charger and shall supply' the load during emergency conditions when AC supplies are lost. Batteries shall be suitable for a long life under continuous float operations and occasional discharges

### Containers

Containers shall be made of polypropylene plastic material. Containers shall be robust, heat resistance, leak proof, non absorbent, and alkali resistant, non bulging type and free from flaws such as wrinkles, cracks, blisters, pin holes etc. Electrolyte level lines shall be marked on container in case of transparent conditioners.



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### Vent Plugs

Vent plugs shall be provided in each cell. They shall be anti splash type, having more than one exit hole and shall allow the gases to escape freely but shall be such that the water loss due to evaporation is kept to minimum. In addition the ventilator shall be easily removed for topping up the cells and of such dimensions that a syringe type hydrometer can be inserted into vent to take electrolyte samples.

### Plates

The plates shall be designed for maximum durability during all service conditions. The construction of plates shall conform to latest revisions of IS: 10918.

The separators shall maintain the electrical insulation between the plates and shall allow the electrolyte to flow freely. Separators should be suitable for continuous immersion in the electrolyte without distortion. The positive and negative posts shall be clearly marked.

### Sediment Space

Sufficient sediment space shall be provided so that cells will not have to be cleared during normal life and prevent shorts within the cell.

### Electrolyte

The electrolyte shall be prepared from battery grade potassium hydroxide conforming to BS: 1069.

The cells can be shipped either in charged condition or in dry condition. Necessary electrolyte for make-up shall be supplied separately with 5% extra.

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### Connectors and Fasteners

**Nickel coated copper connectors** shall be used for connecting up adjacent cells and rows. Bolts, nuts and washers shall be effectively Nickel coated to prevent corrosion. The thickness of nickel coating of connectors should be not less than 0.02 mm. All the terminals and cell inter-connectors shall be fully insulated or have insulation shrouds. End take off connections from positive and negative poles of batteries shall be made of single core cables having **stranded Cu conductors** and XLPE insulation. Necessary supports and lugs for termination of these cables on batteries shall also be supplied by the bidder. All connectors and lugs shall be capable of continuously carrying the 30 minutes discharge current of the respective batteries and through fault short circuit current which the battery can produce and withstand for the period declared. Bidder shall furnish necessary sizing calculations to prove compliance to the same. Suitable number of Inter-rack connectors shall be supplied by the bidder to suit the rack arrangement.

### Battery Racks

**Mild steel racks** for all the batteries shall be provided. They shall be free standing type mounted on porcelain/hard rubber/PVC pad insulators/ High impact plastic insulators.

Batteries shall preferably be located in the single tier arrangement. However, batteries having a complete cell weight of lower than 50 kg could be located in the double tier arrangement. The batteries racks and supports for cable termination shall be coated with three (3) coats of anti-alkali paint of CHECKED & APPROVED shade. Name plates, resistant to alkali, for each cell shall be attached on to the necessary racks. The bottom tier of the stand shall not be less than 150 mm above the floor.

Wherever racks are transported in dismantled conditions, match markings shall be provided to facilitate easy assembly.

### Manufacturer's Identification System

The following information shall be indelibly marked on outside of each cell.

- Manufacturer's name and trade marks
- Country and year of manufacture
- Manufacturer type designation
- AH capacity at 5 hour discharge rate.
- Serial number



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**THE FOLLOWING INFORMATION SHALL BE GIVEN ON THE INSTRUCTION CARDS SUPPLIED WITH THE BATTERY:**

- (a.) Manufacturer's instructions for filling and initial charging of the battery together with starting and finishing charging rate.
- (b.) Maintenance instructions.
- (c.) Designation of cell in accordance with IS:10918.
- (d.) Storing conditions of electrolyte.

**TESTS**

All equipment to be supplied shall be of type tested design. During detail engineering, the bidder shall submit for Owner's approval the reports of all the type tests as listed in this. These reports should be for the test conducted on the equipment similar to those proposed to be supplied under this contract and the test(s) should have been either conducted at an independent laboratory or should have been witnessed by a client.

However if the bidder is not able to submit report of the type test(s) conducted within last ten years or in the case of type test report(s) are not found to be meeting the specification requirements, the contractor shall conduct all such tests at no additional cost either at third party lab or in presence of client/owners representative and submit the reports for approval.

All acceptance and routine tests as per the specification and relevant standards shall be carried out. Charges for these shall be deemed to be included in the equipment price.

The type test reports once CHECKED & APPROVED for any projects shall be treated as reference. For subsequent projects of NTPC, an endorsement sheet will be furnished by the manufacturer confirming similarity and "No design change". Minor changes if any shall be highlighted on the endorsement sheet.

**GENERAL**

The Contractor shall submit for Owner's approval the reports of all the type tests carried out as per latest IS-1146(for all applicable tests for containers) / IS-10918 (for NI-CD batteries). The complete type test reports shall be for any rating of battery in a particular group, based on plate dimensions being manufactured by supplier.

**Routine and Acceptance tests** shall be as per Quality Assurance & Inspection table of battery.

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## 2.0 ACCESSORIES PER BATTERY BANK:

The following accessories are tentative & Bidder shall offer all items among the following list which are applicable for Ni-Cd Batteries.

- i. Hydrometer – 5 Nos
- ii. Set of hydrometer syringes suitable for the vent holes in different cells – 5 Nos
- iii. Thermometer for measuring electrolyte temperature – 5 Nos
- iv. Cell testing voltmeter (3-0-3 V) – 5 Nos
- v. Alkali mixing jar – 5 Nos
- vi. Rubber aprons – 5 Nos
- vii. Pair of rubber gloves – 5 Nos
- viii. Set of spanners – 5 Nos
- ix. Goggles (industrial) – 5 Nos
- x. No smoking notice for each battery room – 2 Nos
- xi. Specific gravity correction chart– 2 Nos
- xii. Instruction card – 10 Nos
- xiii. Minimum and Maximum Temperature Indicator – 1 No.
- xiv. Cell lifting facility – 1 Set
- xv. Wall Mounting Teakwood Holder For Hydro Meter And Thermometer- 2 Nos
- xvi. Electrolyte testing kit – 1 No
- xvii. Alkali resistant funnel & mugs – 4 Nos
- xviii. Plastic filling bottles – 10 Nos
- xix. User Manual-1 No.
- xx. Petroleum Jelly- 1gm per terminal
- xxi. Vent Caps-2 Nos Extra

## 3.0 COMMISSIONING OF BATTERY

Commissioning of each battery at site shall only be carried out either by the battery manufacturer or agency deputed by bidder under supervision of battery manufacturer representative.



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# TYPICAL BATTERY SIZING CALCULATION

REVISION:00

CHECKED & APPROVED

AMIT KUMAR SHARMA

PREPARED

ISSUED

DATE

A.SARAVANA  
BABU

416

13/05/26



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### Battery sizing calculation for UPS System:

Full load of UPS/UPS rating is considered = 'M' kVA

Max. Output load on UPS in watts = 'M' x 1000 x 0.8 (P.F)

= 'N' Watts

Inverter efficiency = 0.9/As per UPS vendor

Type of Battery and Back up Time required = 1 hour at full load/As per customer contract.

End cell voltage (ECV) = 1.1 Volts/cell.

Number of cells 'B' = 287 cells for 50 kVA & above ratings / 180

cells upto 50 kVA rating / As per detailed engineering. UPS vendor

Ageing factor = 1.25/ As per customer contract.

Design Margin = 1.2/ As per customer contract.

Temperature correction factor (at "M (As per contract)" deg. C. electrolyte temp.) = 'C'

Based on manufacturer's curves, state of charge factor for H-type Battery

for 8 hour Charging at maximum per cell boost voltage 1.68V

= 'D'

Float charge correction factor at ECV of 1.1V for Back-up

= 'E'

Then Battery Discharge Current required

$$= \frac{N}{1.1 \times 0.9 \times B}$$

= 'X' Amps

I<sub>DC</sub> with float charge correction factors, temperature correction factor, ageing factor,

State of charge factor & design margin is

$$= \frac{X \times D \times 1.25 \times 1.2}{C \times E}$$

= 'Y' Amps

'Y' Amps is Discharge Current (minimum) which is to be fitted in to High Discharge H-Type Battery.

Battery AH to an end cell voltage of 1.1 volts/ cell and

= 'Z' AH

Suiting the above discharge current

Hence, Battery selected = 'B' cells 'Z' AH which can deliver 'Y' Amps for back-up time at ECV=1.1V

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**Battery sizing calculation for Charger System:**

**Battery sizing calculation for 24V DC Charger System:**

Full load current = 'A' Amps  
 Type of Battery and Back up Time required = 1 hour at full load./As per customer contract.  
 End cell voltage (ECV) = 1.16 Volts/cell.  
 Number of cells 'B' = 19 cells  
 Ageing factor = 1.25 / As per customer contract.  
 Design Margin = 1.0 / As per customer contract.

Temperature correction factor (at "M (As per contract)" deg. C. electrolyte temp.) = 'C'

Based on manufacturer's curves, state of charge factor for H-type Battery for 8 hour Charging at maximum per cell boost voltage 1.68V = 'D'

Float charge correction factor at ECV of 1.16V for Back-up = 'E'

Total discharge current considering float charge correction factors, temperature correction factor, ageing factor, State of charge factor & design margin is

$$= \frac{A \times D \times 1.25 \times 1.0}{C \times E} = 'Y' \text{ Amps}$$

'Y' Amps is Discharge Current (minimum) which is to be fitted in to High Discharge H-Type Battery.

Battery AH to an end cell voltage of 1.16 volts/ cell and Suiting the above discharge current = 'Z' AH

Hence, Battery selected = 'B' cells 'Z' AH which can deliver 'Y' Amps for back-up at ECV=1.16 V

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