

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**TRANSFORMER ENGINEERING DEPARTMENT**

ANNEXURE TO INDENT - 232656205

DTD: 30/05/2025

DESCRIPTION OF EQUIPMENT : **Transformer Radiators**

Customer : M/s Power Grid

SPECIFICATION OF TRANSFORMER RADIATORS**1. Scope.**

This specification covers the requirements of minimum 9-flute/equivalent/Radiator to drawing No. **TR20081R/ 04994300010 / 34694300046** used for oil cooling in transformers by natural or forced circulation of oil and air. Primer painting of outside surface of radiator shall be done by epoxy Primer and polyurethane paints and inside surface shall be flushed by low viscosity varnish for long-term protection against corrosion.

2. Design and construction

a) The radiator consists of mainly two parts:

- (1) Cooling elements with oil channels
- (2) Header pipes with mounting flanges

b) The cooling elements are fabricated from sheet metal, and have a large number of hollow oil channels (flutes) with their ends connected to header pipes by welding. Edges of the cooling elements shall be sealed at both sides by electrical resistance welding (ERW). The header pipes shall be closed at one end and open at the other end. Mounting flanges shall be welded to the open end of headers. Cooling elements and mounting flanges shall be welded to the header pipes by MIG welding.

c) The radiators shall be installed by their mounting flanges with header pipes at top and bottom and cooling elements always in vertical position. The connection of radiators to the transformer or cooling circuit shall be made by leak tight bolted joints, using synthetic rubber gaskets as oil seal. Hot oil from the transformer will flow into radiators through header pipes and get circulated in cooling elements. External air circulation through the spaces between adjacent cooling elements enables the heat transfer.

d) The following attachments shall be welded to the radiator at specified locations, unless otherwise specified.

REV	DATE	ALT CKD	REV-	DATE	ALT- CKD-	REV 00	NAME	SIGN	DATE
						PREP	N. Melgandi		09/10/2020
						CKD	A DEOTA		09/10/2020

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL
TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheets 2 of 5

ANNEXURE TO INDENT - 232656205

DTD: 30/05/2025

DESCRIPTION OF EQUIPMENT : Transformer Radiators

Customer : M/s Power Grid

- (1) Air release plug for venting air while oil filling
- (2) Drain plug for removing oil or emptying the radiator
- (3) Lifting lugs for lifting and shifting the radiator
- (4) Bracing lugs (fixing plates) for tie bars to keep the radiators properly aligned after installation.
- (5) Stiffeners (bracing rods) to prevent distortion and for noise reduction.
- (6) Additionally, oil-sealing gaskets shall be provided with the air release and drain plugs.

e) Materials:

Unless otherwise specified, the following materials shall be used for the fabrication of radiators.

- (1) Cooling elements: Cold rolled steel sheet (ASTM A1008-08a/IS 513, Gr.-D) with nominal **thickness 1.2 mm (Min)**
- (2) Size of header pipes: 80NB pipe Wall thickness = 4.2mm (min.)
- (3) Steel (IS 2062/ASTM A36/A36M-08)
- (4) Oil sealing gaskets: PTFE (Teflon) washers for air release & drain plugs

f) Dimensions

- (1) **Length of radiator: Refer Indent / Enquiry**
- (2) Mounting distance: Centre distance between mounting flanges shall be the same as the radiator length.
- (3) Width of elements: 520 ± 5.0 mm.
- (4) Nominal Thickness of elements: 1.2 mm (min)
- (5) Nominal Height of oil channels: 12 mm
- (6) Number of elements: Refer Indent / Enquiry
- (7) Nominal Pitch of elements: 55mm
- (8) Size of header pipes: 80NB pipe Wall, thickness = minimum 3.15mm
- (9) Nominal size of bracing rods: 8 mm Ø round rods.
- (10) Minimum surface area of each radiator : Refer Indent / Enquiry
- (11) Nominal no. of flutes : 9 minimum
- (12) Refer Overall dimension: as drawing no- **TR20081R/ 04994300010 / 34694300046** with latest revision.

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TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheets 3 of 5

ANNEXURE TO INDENT - 232656205

DTD: 30/05/2025

DESCRIPTION OF EQUIPMENT : **Transformer Radiators**

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3. Welding and assembly**a) Fabrication of cooling elements**

- (1) The cooling element shall be fabricated out of two equal size panels of CRCA strips (cold rolled steel strips). The panels shall be corrugated, degreased by chemical or solvent cleaning and stacked one over the other with their corrugations forming into hollow flutes. Edges of the panels shall be matched properly to same level and seam welded continuously on both sides.
- (2) The ends and corners of cooling elements shall be TIG welded and sealed.
- (3) The edges shall be closed tightly by mechanical means after completion of seam welding.
- (4) The edges may be trimmed further, if required to make them straight and to eliminate any mismatch or level difference between the panel edges.

b) Assembly and welding

- (1) Cooling elements shall be assembled between the top and bottom header pipes and welded to them at equal pitch distance.
- (2) Appropriate jigs and fixtures shall be used for assembly and welding to prevent distortion/warping, to maintain parallelism between cooling elements and to achieve dimensional accuracy.
- (3) On completion of welding, the header pipes shall remain parallel to each other without distortion or twist. The maximum skew or drooping present in radiators, after their installation and filling of oil shall not exceed 2.0mm.
- (4) The flanges shall be welded to header pipes with their mounting surface perfectly at right angle to the pipe axis. Mounting surface of welded flanges on both header pipes shall remain in same plane.
Extra gussets shall be provided between header pipes and mounting flanges in radiators ordered for use in seismic zones.
- (5) Lifting lug shall be welded to the header pipes preferably on a pad. Lifting lug shall be first welded on the pad and subsequently the pad shall be welded to the header pipe.

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BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL
TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheets 4 of 5

ANNEXURE TO INDENT - 232656205

DTD: 30/05/2025

DESCRIPTION OF EQUIPMENT : **Transformer Radiators**Customer : **M/s Power Grid**

- (6) Stiffeners/bracing rods, sockets for air release and drain plugs, gussets and other attachments shall be welded at specified locations.

4. Painting Procedure:

As per BHEL painting procedure TR 10257P Paint **Shade RAL 7035**

5. Tests:

The following tests shall be conducted on radiators as routine tests and the test reports submitted with the supply of material.

- (1) Air Pressure Testing: Each Radiator assembly after manufacturing but before painting shall be air tested as per BHEL Speciation TR 10086 R.
- (2) Coating thickness: Coating thickness shall be measured after painting. The measurement shall be made with Elcometer, operating on magnetic principle. Minimum ten measurements shall be made at various locations on cooling elements and header pipes. Extended probe shall be used for measuring on surfaces between cooling elements. The measured thickness shall conform to the specified values.
- (3) Adhesion test: Paint adhesion shall be tested and verified on random representative samples as per ASTM D8359. Test locations shall be touched-up with primer and finish paint before dispatch.
- (4) Verification of dimensions: Overall dimensions and mounting distance shall be verified with respect to drawing before packing the radiators for dispatch.
- (5) Visual inspection: All radiators shall be visually inspected before packing. Overall appearance, finish and workmanship shall be satisfactory.

Radiator shall be subjected to the following type tests.

- (1) Oil seepage test: One Radiator from each lot shall be tested filled with hot transformer oil at $105 \pm 5^\circ\text{C}$ to a pressure of 1 kg/cm² (min.) and kept under pressure and temperature for 12 hours. There shall not be any leakage or seepage of oil from the radiator during this period.
- (2) Vacuum Test: - One Radiator from each lot shall be vacuum test at 5 torr for 1Hr. and

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BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL
TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheets 5 of 5

ANNEXURE TO INDENT - 232656205

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Maximum deflection at center should not exceed more than 0.5 mm.

6. Marking and packing:

- a) Manufacturer's identification and Sr. no. of the radiator shall be marked on all radiators.
- b) The radiator header pipe openings shall be closed leak-tight by keeping provision for applying Nitrogen /Dry air pressure with minimum 5mm thick steel blanking plates using rubber gaskets and zinc plated steel fasteners.
- c) After applying positive pressure of nitrogen/ Dry air of the radiators shall be stacked one above the other and packed in wooden boxes/crates. Max. Number of radiators shall be restricted to 2 / packing case. Plastic sheet covering shall be provided externally on the packing case.
- d) The packing wood shall be chemically treated and protected against fungus attack. The packing cases shall be strong, sturdy and suitable for re-packing, after the radiators are taken out for testing of transformer. The radiators and packing cases shall not get damaged during handling, transport and storage. The packing cases shall be covered with plastic sheets.
- e) Size of radiator, make shall be legibly marked on the packing cases for identification.

7. a) The bidder should submit signed Compliance of technical specification.

- b) 2 copies of drawing showing the mounting details, description, leaflets etc. should be furnished along with the offer for approval.
- c) Radiators shall be dispatched only after valid MICC (Material inspection clearance certificate) from BHEL.
- d) Compliance of all applicable quality plan and inspection requirement from customer as per applicable quality plan.

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TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheets 6 of 5

ANNEXURE TO INDENT - 232656205

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- f) Vendor may offer alternate design of radiators subject to meeting mounting dimensions / over all dimensions and surface area requirement in line with BHEL drawings

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PQR- Pre qualification requirement for manufacturing of Radiators -765 kv PGCIL		
S.N.	Particulars	Vendor's Remark
1	The Bidder should be manufacturer of Radiators of 765 KV class catgory (self Decalaration)	Yes/No
2	Offer of the bidders who are registered/empanelled/approved/enlisted with PGCIL customer for 765 Kv class for manufacturing of Radiators shall be considered for evaluation. Details of customer approval are required to be submitted alongwith tender. All the bidders including MSE and startups are to comply the same for qualification	Yes/No, Attach Customer Approval
Note:		
1	Additional time of 15 (fifteen) days from tender opening date (i.e. Bid part-1 opening date) shall be given to participating bidder for obtaining their manufacturer approval from M/s Power grid corporation of India limited (PGCIL) If any. In case of delay of more than 15 days in obtaining their manufacturer approval from PGCIL, Bidder's offer will not be considered for evaluation. Bidders are advised to start their approval from M/S PGCIL immediate after receiving the tender documents.	
2	ALL THE ABOVE POINT WISE PRE-QUALIFICATION REQUIREMENT ARE TO BE NECESSARILY ACCEPTED BY THE BIDDERS FOR THEIR OFFERS TO BE CONSIDERED FAILING WHICH OFFERS SHALL BE REJECTED.	
3	Approved compendium of vendors for Radiators is available on M/s PGCIL website on M/s PGCIL website (https://www.powergrid.in/en) for 765 kv	

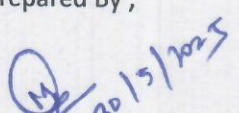
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1. BHEL has right to verify information /confirmation furnished by asking additional documents, proof etc.

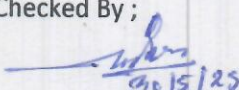
ALL THE ABOVE POINT WISE PRE-QUALIFICATION REQUIREMENT ARE TO BE NECESSARILY ACCEPTED BY THE BIDDERS FOR THEIR OFFERS TO BE CONSIDERED FAILING, WHICH OFFERS SHALL BE REJECTED.

2. item is critical, no relaxation from compliance to above PQR shall be given to MSE and start up organizations.

Prepared By ;


Manoj Kumar Prabhakar
Sr. Manager / FTM

Checked By ;


S K Kaushal
DGM / FMM



Bharat Heavy Electricals Limited, Bhopal (India)

(A Govt. of India undertaking)

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Ancillary & Subcontracting Division, HRDC Building, Ground floor, BHEL Bhopal

TENDER DOCUMENT FOR E6953003



Annexure-I

1- CLAUSE ON CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS IS TO BE RAED IN PLACE OF CLAUSE NO.35 OF BP200102B

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 the 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 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.**



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TENDER DOCUMENT FOR E6953003



2- REVERSE AUCTION: RA SHALL BE CONDUCTED FOR THIS ENQUIRY

BHEL shall be resorting to Reverse Auction (RA) for this tender. (Guidelines as available on www.bhel.com- <https://bhel.com/guidelines-reverse-auction-2024>) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed price bid along with applicable loading, if any, shall be considered for ranking.

3- DELIVERY REQUIREMENT: - Delivery proposed (No. of days / Weeks from PO): 1st lot of 2 sets (48 Nos) in 60 days and 2nd lot of 2 sets in 90 days, 3rd lot -120 days, 4th lot-150 days, 5th lot -180 days, 6th lot - 210 days and 7th lot - 240 days from the date of PO placement.

4-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.

Sl. No.	IEM	E-mail
1	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
2	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

(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 any of the above IEM(s). All correspondence with the IEMs shall be done through email only.



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TENDER DOCUMENT FOR E6953003

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: Praveen Kumar Sachan

Deptt: ASC

Address: BHEL BHOPAL

Phone: (Landline/ Mobile)-0755-2505827

Email: sachanpraveen@bhel.in

Fax: Nil

(2)

Name: Farhan Ahmad

Deptt: ASC

Address: BHEL BHOPAL

Phone: (Landline/ Mobile):- 0755-2505640

Email: farhan@bhel.in

Fax: Nil



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

Sl.No.	Description
1	General:
1.1	These General terms & conditions (GTC) shall apply to all enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., Bhopal (hereinafter referred to as BHEL or the Purchaser) or its Projects / Customers. Special / supplementary enquiry conditions, if any, will override the conditions in this annexure. In case of placement of order these conditions will become part of Purchase Order (P.O) until unless the deviations are specifically agreed by BHEL. In case of any inconsistency, conflicts or contradiction among any of the contract documents, the interpretations will be based on the following order of precedence: - Amendments to Purchase Order/ Framework Agreement - Purchase Order/ Framework Agreement - Letter of intent (LOI)/ Letter of Award (LOA) - Minutes of meeting or Clarifications agreed between Buyer and Seller as regards to the tender or the bidding conditions - Corrigenda to NIT, with those of later date having precedence over those of earlier date - Original NIT and annexures except documents listed in point no (vii) to (ix) below - Technical specifications including their annexures - Special Terms and condition of Enquiry (STC) - General Terms of Enquiry (GTC)
2	General Instructions - Common for Indigenous & Foreign enquiries
2.1	Through eProcurement - Interested bidders / suppliers shall submit their offer through e-procurement mode at https://eprocurebhel.co.in/nicgep/app - Offers in any other mode will not be accepted. - Procedure for submission of tender is available in the "Bidder Manual Kit" at e-tender portal https://eprocurebhel.co.in/. - In case of any difficulty faced while registering on BHEL's e-Procurement portal developed by NIC, queries may be addressed to 0120-4001002, 0120-4001005 and 0120-4493395 email: support- eproc@nic.in. These details are also available on Contact Us page of the portal. - Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates etc uploaded by him, owning responsibility for their correctness / authenticity. - Disclaimer clause: Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.
2.2	Through tender room (Conventional tender)
2.2.1	Sealed bids are invited for scope of Supply / Services as detailed in the enquiry. Bid should be free from correction, overwriting, using of corrective fluid etc. Any interlineation, cutting, overwriting shall be valid only if they are attested under full signature(s) of persons signing the bid else shall be liable for rejection. All overwriting/ cutting etc. will be numbered by bid opening officials and announced during bid opening. The bid should be submitted in English or Hindi language. Relevant enclosures, supporting documents, catalogue, samples, if any, as required as per Notice Inviting Tender (NIT) conditions shall be sent along with technical offer. Rate should be quoted in the units asked for in the enquiry.
2.2.2	Bids shall be submitted in a Sealed cover with Enquiry No., Due date and Bidder's name indicated on the cover. In case of Two Part Bid, technical bid containing technical offer, this GTC duly filled-in & signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price (as called for in the price format where required) should be kept in a separate envelope. Both envelopes indicating Part —I or Part-II as the case may be to be put in a bigger envelope, which should be addressed to in charge, Tender Room, Bharat Heavy Electricals Ltd. 2nd Floor, Jawahar Bhavan, Piplani, Bhopal 462022. Enquiry No., due date and bidder's name must be mentioned on all envelopes. Offer must reach tender room of BHEL Bhopal latest by 11.00 am IST on the enquiry due date. Bids submitted as single part bid against two – part bid, shall be rejected unless the offer is techno-commercially acceptable without seeking any clarification.
2.2.3	Offer received after 11.00 AM IST of the due date will be termed as "Late" and shall not be considered. However, late offer received against single tender enquiry may be considered.
2.2.4	Bidder can also submit offer through email id mmtender.bpl@bhel.in or if called for in the enquiry, at the designated /authorized email address indicated in the enquiry. Such email offers shall be sent only on designated email-id to reach before 11.00 am IST on the tender due date. BHEL will not be responsible for incomplete offers and the ones delivered late through e-mail. Bidder shall have no claim on e-mail offers sent to any other e-mail ID. In case of e-mail offers, the



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	mail subject should contain Enquiry Number, Due date and Bidder name. Bidder address including contact details shall be mentioned in the content of the mail. Without these details, the offer is liable for rejection. All techno commercial terms & conditions mutually agreed prior to price bid opening shall prevail and supersede any terms and conditions specified otherwise in price bid.
2.3	Through tender room or EProcurement
2.3.1	Commercial Conditions quoted by the bidder in any place including as stated in bidder's 'General Terms and Conditions' if any, shall not be binding on the Purchaser and the conditions contained in this annexure, including special conditions, if any, for this enquiry shall only prevail.
2.3.2	Rate should be quoted in the units asked for in the enquiry. The rates should be quoted both in figures and words. In case of discrepancy in figures and words, the rates quoted in words shall be considered.
2.3.3	The goods offered shall conform to BHEL specifications and / or National/International standards as mentioned in the Enquiry and the bidder is required to confirm his unconditional acceptance to the same. Bidders, seeking deviations from the specifications and any other conditions, may indicate the same clearly on a separate sheet indicating Sl. No. of the item, with reasons for such deviations. BHEL reserves the right to reject the offer with deviations or load the deviations suitably for evaluation.
2.3.4	Offers shall be submitted directly by bidder or his authorized agent only. Unsolicited offers shall be summarily rejected.
2.3.5	Bid in single part or techno-commercial bid in two-part system (as the case may be) will be opened on the due date. In case of two part bid, price bids of techno-commercially accepted bidder(s) only shall be opened on the assigned date, for which separate intimation will be sent to the accepted bidders.
2.3.6	Whenever specified /called in special /additional /tender specific remakes of tender the Bid Security/ Earnest Money Deposit (EMD)] is to be submitted by bidders along with their bids (except Micro and Small Enterprises (MSEs) or Startups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT)). <u>Modes of deposit</u> a) The EMD may be accepted only in the following forms: (i) Electronic Fund Transfer credited in BHEL account (before tender opening). (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer). (iii) Fixed Deposit Receipt (FDR). (iv) Bank Guarantee from any of the Scheduled Banks. (v) Insurance Surety Bonds. b) In case the EMD is more than Rupees Two lakh and in case of foreign bidders, it may be in the form of a bank guarantee (in equivalent Foreign Exchange amount, in case of foreign bidders) issued/ confirmed from any of the scheduled commercial bank in India in an acceptable form. The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period. <u>Forfeiture of EMD</u> (i) A bidder's EMD will be forfeited if the bidder withdraws or amends its/ his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender. (ii) EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines. <u>Others Instructions</u> (i) Bid securities of the unsuccessful bidders should be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. However, in case of two packet or two stage bidding, Bid securities of unsuccessful bidders during first stage i.e. technical evaluation etc. will be returned within 30 days of declaration of result of first stage i.e. technical evaluation etc. (ii) Bid security will be refunded to the successful bidder on conclusion of the order/ receipt of a performance security (if called in the tender). (iii) EMD shall not carry any interest.
2.3.7	1.Any discount / revised offer submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer submission (Part-I). Conditional discounts shall not be considered for evaluation of tenders. 2.Unsolicited discounts / revised offers given after Part-I bid opening shall not be accepted. No change in price will be permitted within the validity period of offer. 3.In case of changes in scope and / or technical specification and / or commercial terms & conditions, having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However in both situations, original price bid will be necessarily opened.
2.3.8	The bidders will submit Integrity Pact, duly signed by its authorized signatory, where called for in the enquiry.
2.3.9	Unregistered suppliers, who are techno-commercially qualified against the open tender, are requested to register with BHEL-Bhopal as permanent supplier by submitting the Supplier Registration Form (SRF) in online supplier registration portal (https://supplier.bhel.in/). Un-registered vendors may be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) for Foreign Vendors or Indigenous Vendors (as applicable)
2.3.10	BHEL expects that the bidder responds to the enquiry. Regret letter, with valid reasons for not participating in the tender will be submitted where the bidder is unable to submit offer. Repeated lack of response on the part of bidder may lead to his deletion from BHEL's approved bidder list. Refer guidelines for suspension of Business Dealings with Suppliers/Contractors available on https://www.bhel.com/sites/default/files/suspension_guidelines_abridged.pdf
2.3.11	In case of open tenders (i.e. those published in website) all corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL website. (https://bhel.com/tenders) and additional in https://eprocurebhel.co.in/nicgep/app for e-procurement tenders. Bidders responding to these tender should regularly visit website(s) to keep themselves updated.
2.3.12	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 sealed envelope and will be open in tender room. 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 presence of the respective L-1 bidders or their representatives. Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.
2.3.13	The Purchaser can consider awarding tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders) in the manner and proportion disclosed in the tender conditions. Purchaser can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for.
2.3.14	The bidder shall submit price bid strictly in the price format, wherever provided for, in the enquiry. Any attempt on the part of the bidder to alter the contents of the price bid format in any manner, which in the opinion of BHEL can vitiate the tendering process, will lead to rejection of the bid, <u>besides BHEL taking appropriate punitive action as deemed fit.</u> Refer Guidelines for suspension of Business Dealings with Suppliers/Contractors available on https://www.bhel.com/sites/default/files/suspension_guidelines_abridged.pdf
2.4	BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com). If tender specific conditions call for reverse auction, RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for 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
2.5	BHEL reserves the right to negotiate with L1 vendor or re-float the tender for items. BHEL reserves the right to decrease the tender quantity in case where negotiation is being held.
3	Delivery Terms
3.1	Indigenous Purchase
3.1.1	Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the enquiry.
3.2	Foreign Purchase — Imports
3.2.1	1. Goods shall be despatched by Sea, unless stated otherwise in the enquiry or purchase order. 2. Terms of Delivery for Sea shipment shall be on CFR / CIF basis with 14 days' detention free period preferably at Nhava Sheva (JNPT-INNSA1) for FCL (Full Container Load) Cargo of GP & HC Containers. 3. For other cases - Other than GP & HC Containers, LCL Cargo shall be delivered at Nhava Sheva (JNPT- INNSA1) & Break-bulk Cargo at Mumbai (MPT - INBOM1). 4. For Air consignments, the terms of delivery shall be FCA at BHEL nominated Airport. In case of CIP, delivery shall be at Mumbai ACC (INBOM4). 5. Freight amount shall be indicated separately in the offer in case of CIP/CFR/CIF. 6. The number of detention free days and destination charges payable to shipping line must be mentioned in your offer and also on the Bill of Lading. 7. Offer received on FOB basis may be considered on an exceptional basis. BHEL will load freight, marine insurance & shipping line port handling charges etc. to work out landed cost at Sea Port. 8. Please visit BHEL Bhopal website https://bpl.bhel.com or refer special terms and conditions of tender enquiry for details of named Air ports and Sea ports. Name of the gateway port so chosen by the bidder shall be indicated by the Bidder in his offer.



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	9a In case of CIP/CFR/CIF, the shipping line should be ready to move the containers to consignee's nominated CFS (Container Freight Station) yard and Indian agent of shipping line should issue Cargo Arrival Notice (CAN) 7 days in advance. 9b In case of CFR contract, bidder to supply the material through a Certified Sea worthy vessel age not more than 15 years. 9c The invoices being issued by shipping lines must be in the name of BHEL. Otherwise, BHEL will recover loss of Input Credit on GST from the vendor. 9d While booking the shipment, bidder to also finalize destination charges and the same should appear over BL or agreed tariff to be provided to BHEL before arrival of shipment. If cargo is stuffed in container, then the same should be allowed to be moved to CFS of importer's choice without any additional charges. 9e Load port charges shall be settled by the supplier and not be passed on to BHEL in any form of destination charges. 10. For reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and or faulty, the suppliers shall be responsible to reimburse all penalties, detention and demurrages / wharfages, if any paid by BHEL (for stated reasons).
3.2.2	1. For delivery of FCL (Full Container Load) cargo, the Bidder shall provide minimum 14 days' detention free period from the date of delivery at Port of Discharge / Place of Delivery (in case of ICD). Wherever the detention free period offered is less than 14 days, the bids shall be loaded for the period short of 14 days' period. 2. <u>Port Congestion charges or any additional charges claimed by the shipping line at Port of Discharge / Place of Delivery shall be to the Bidder's account.</u>
4	Bidder's particulars & logistics information (Bidder to give details against each of the provisions)
4.1	Name of the bidder's executive to deal with this tender / project
4.2	E-mail address of the contact person
4.3	Telephone no. of the contact person
4.4	Name of location from where the goods shall be offered for inspection and dispatch
5	Additional logistics information for Imports
5.1	Bid currency
5.2	Charges applicable at discharge port up to BHEL's CFS (Container Freight Station) to be indicated in your offer and on the B/L
5.3	Name of Airport in the country of dispatch for FCA delivery terms
5.4	Estimated number, type & size of containers for delivery of tendered quantity (applicable where the goods are to be sent in FCL)
5.5	No. of packages with cumulative gross weight and CBM volume (applicable for LCL & Break-bulk shipment)
5.6	Approx. distance in km. from Bidder's works to Port of Loading
6	Delivery Schedule & Completion date
6.1	i. Instead of writing specific date against delivery offered, bidder shall commit delivery period in number of days / weeks/ months to suit the delivery period indicated in the enquiry. ii. Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone. iii. Bidder shall deliver the goods in the manner and schedule agreed under the Purchase order. iv. Goods shall be delivered within contractual period or any extension thereof, if any, granted by the Purchaser. v. If delivery is linked to approval of documents, time for submission of such documents to be indicated and delivery period to be indicated from approval of documents. This delivery schedule will be considered for processing delivery extension, wherever applicable. vi. BHEL reserves the right to cancel the order if material is not delivered within PO scheduled delivery. vii. Suitable action against defaulting vendor will be taken as per Guidelines for suspension of Business Dealings with Suppliers/Contractors available on https://bhel.com/guidelines-suspension-business-dealings-supplierscontractors
6.2	In case of foreign supplies, the date of Bill of Lading (B/L) or AWB shall be taken as actual date of delivery where freight until discharge port in India is in Seller's scope like CFR/CIF/CIP delivery terms. For Ex-works/FCA/FOB or any other delivery term where freight is in buyer's scope, date of material readiness /Test certificate/ Warehouse receipt/Freight forwarder receipt may be considered as actual date of delivery (mutually agreed).



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

6.3	In case of Indigenous bidders, the date of delivery at named destination in India shall be taken as contractual delivery completion date where delivery terms are FOR destination. In case of 'Ex-works' delivery terms, the date of LR / RR shall be the contractual delivery completion date.
7	Transit Insurance
7.1	Except where delivery terms are agreed on CIF basis for Imports & FOR destination basis for indigenous purchases, transit insurance will be covered by BHEL under its Open Marine Transit Insurance Policy. Bidder shall inform dispatch particulars with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of bidder to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
8	Force Majeure
8.1	Notwithstanding anything contained in the contract, neither the Bidder nor the Purchaser shall be held responsible for total or partial non-execution of any of the contractual obligations, should the obligation become unreasonably onerous or impossible due to occurrence of a 'Force Majeure' which directly affects the obligations to be performed by the Purchaser or the Bidder; Such events include war, military operations of any nature, blockages, revolutions, insurrections, riots, civil commotions, insurgency, sabotage, acts of public enemy, fires, explosion, epidemics, quarantine restrictions, floods, earthquake, or acts of God, restrictions by Govt. authorities; over which the Bidder or the Purchaser has no control. The party claiming to be affected by force majeure shall notify the other party in writing without delay, within two weeks on the intervention and on the cessation of such circumstance. Extension of time sought by the Bidder along with supporting evidence and so granted by the Purchaser for the supply/ work affected, if any, shall not be construed as waiver in respect of remaining deliveries. Rescheduling of deliveries on account of force majeure conditions, if so agreed by the Purchaser, will not entail the Bidder to claim any increase in the price on whatsoever account. Notwithstanding above provisions, Purchaser shall reserve the right to cancel the order/ Contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements. If deemed necessary, Purchaser may takeover partly processed material at a mutually agreed price.
9	Penalty for Late Delivery
9.1.1	Unless covered under Force Majeure conditions aforesaid, Penalty for late delivery shall be 0.5% of the undelivered portion per week of delay or part thereof, subject to a maximum of 10% of the undelivered order value owing to delayed delivery . Total undelivered order value above shall be item wise, lot wise order value of PO . Any deviation from above, which is based on specific requirement/LD clause, shall be specified in particular tender /Special terms and condition(STC) /Additional terms and conditions(ATC) and same shall have overriding effect on anything mentioned in instant GTC. Imposition, recovery or settlement of this penalty shall not adversely affect BHEL's right to performance, compensation and termination of the order.
9.1.2	However, in case of Capital Machine / BOP (Balance of plant) where staggered deliveries may be applicable, the penalty will be levied on total order value. Any deviation based on specific requirement shall be specified separately in the NIT/STC/ATC. In case of Capital items /Balance of plant (BOP) item where services of installation /erecting & commissioning /supervision is desired with supply (Milestone delivery terms) , the LD clause will be separately mentioned in particular tender /Special terms and condition(STC) /Additional terms and conditions(ATC)
9.1.3	In case of any amendment / revision, the penalty shall be linked to the amended / revised PO.
9.1.4	Any loading on penalty clause shall be to the extent to which it is not agreed to by the bidder (at offered value)
9.2	In case the contractually agreed delivery date falls on a holiday in BHEL Bhopal, the next working day shall be taken as contractual delivery date for compliance and applicability of LD / penalty.
9.3	In case of any recovery for delayed performance, the applicable GST shall also be recoverable from bidders.
10	Indian Agents and Agency commission
10.1	BHEL prefers to deal directly with Foreign bidder, wherever required, for procurement of Goods. However if the Foreign Principal desires to avail services of an Indian Agent, then the Principal should ensure compliance to "regulatory guidelines" which will require submission of an agency agreement.
10.2	The CFR / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission as disclosed by the bidder in his quoted CFR / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the 'TT buying rate prevailing on the date of technical bid opening or price bid opening shall be considered for computation of Agency commission.



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

10.3	In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. In case bids are received from both the Principal / OEM and the agent, bid received from the agent will be ignored.		
10.4	If an agent submits Bid on behalf of the Principal / OEM, the same agent shall not submit bid on behalf of another Principal / OEM in the Tender, for the same Item / Product.		
11	Documentation:		
11.1	Indigenous Purchase		
	Bidder shall arrange to send to the consignee following documents immediately on despatch of the goods. Documents can also be uploaded at Incoming Material Document Management System (IMDMS) available at BHEL Bhopal B-2-B site of BHEL Bhopal internet page at https://bpl.bhel.com/mm/. Online submission of Invoices /e-invoices for payment can also be done in IMDMS system. 1) Original Tax invoice in triplicate (Buyer's copy and duplicate for Transporter), 2) Consignee copy of LR & 2 sets each of Packing list, 3) Test certificate, Guarantee / Warranty certificate, 4) O & M manuals (where applicable) 5) In case of labour / mixed basis jobs, material is issued free of cost. Necessary material reconciliation is to be done and Free Issue Material Statement (FIMS) is to be submitted with each bill. 6) Pre-dispatch Inspection report /Third Party Inspection Certificates/MDCC certificate 7) Any other documents as specified in Enquiry /PO /STC/ATC of enquiry /annexure The distribution of such documents will be specified in the Purchase order Terms and Conditions (BP 205315 for indigenous and BP205316 for Imported Purchases))		
11.2	Foreign Purchase — Imports		
	Seller shall send 1 set of following documents, in English, within 7 days of B/L date / 1 day of AWB date by courier to the Purchaser 1. Express / Original 'Clean on board' Bill of Lading / AWB. 2. One set of Commercial Invoice, Packing list indicating container-wise Gross weight, Net weight, CBM volume, No. of packages with Dimensions of each package. 3. Original Certificate of Country of Origin (COO) issued by Chamber of Commerce. COO shall be as per requisite format where duty concession is available under Preferential Trade/Comprehensive Economic Partnership/Free Trade agreement. Customs tariff heading (CTH)/ Harmonized System of Nomenclature (HSN) code of material should be mentioned on invoice and COO in all such cases. 4. One set of Original Test Certificates and O&M Manual where called for. 5. Fumigation / Phyto-Sanitary Certificate wherever cargo is packed in wooden packing or packing of plant origin material is used. 6. Supplier should additionally forward 2 sets of original documents mentioned at point nos. 1 to 5 above along with Original Bill of Lading (OBL) or AWB through any international courier service/registered airmail within three (3) days of obtaining the same directly to the following: <table border="1"> <tr> <td> AGM (M.S) Regional Operations Division BHEL 14th Floor Centre-1 World Trade Centre, Cuffe Parade Mumbai 400 005 INDIA Email: msseabpl@bhel.in (In case of Sea freight) msair@bhel.in (In case of Air freight) </td> <td> DGM (FIN- FP) 4th Floor, Administrative Bldg. BHEL Bhopal - 462022 (India) E-mail : fin_fp.bpl@bhel.in </td> </tr> </table> And confirm forwarding details to AGM (CMM- FE), BHEL Bhopal at mmfe.bpl@bhel.in 7. In case the Seller decides to negotiate all 3 originals of B/L / AWB along with all original documents through negotiating Bank, non-negotiable documents (NNDs) consisting of copy of B/L / AWB & documents mentioned at Sl. no. 11- B2 to B5 will be sent by e-mail to the Purchaser at his e-mail address given in the PO with one copy to be mailed at mmfe.bpl@bhel.in as well as at msseabpl@bhel.in (for Sea shipment) or msair@bhel.in (for Air shipment). Other documents, as required, will be separately indicated in the Purchase Order. Additional expenditure, if any, incurred by the Purchaser by way of detention / demurrage, resulting out of delay attributable to the Seller in providing Negotiable documents, will be recovered from the Seller. In case any discrepancy is raised by the Bankers / BHEL with respect to the documents submitted, vendor to facilitate clearance of goods through Delivery Order. Additionally, following requirements to be taken care of by the bidder during PO execution stage: i) IEC (0588138690), GSTIN (23AAACB41461ZN) and email ID (mmfe.bpl@bhel.in) of BHEL Bhopal shall be clearly	AGM (M.S) Regional Operations Division BHEL 14 th Floor Centre-1 World Trade Centre, Cuffe Parade Mumbai 400 005 INDIA Email: msseabpl@bhel.in (In case of Sea freight) msair@bhel.in (In case of Air freight)	DGM (FIN- FP) 4 th Floor, Administrative Bldg. BHEL Bhopal - 462022 (India) E-mail : fin_fp.bpl@bhel.in
AGM (M.S) Regional Operations Division BHEL 14 th Floor Centre-1 World Trade Centre, Cuffe Parade Mumbai 400 005 INDIA Email: msseabpl@bhel.in (In case of Sea freight) msair@bhel.in (In case of Air freight)	DGM (FIN- FP) 4 th Floor, Administrative Bldg. BHEL Bhopal - 462022 (India) E-mail : fin_fp.bpl@bhel.in		



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	mentioned on B/L or AWB. ii) As per Uniform Customs Practice (UCP 600) for documentary credits (L/C), presentation period allowed is maximum 21 days after the date of shipment. However, for geographically closer ports where sea voyage time is less than 3-4 weeks, a shorter presentation period shall be agreed upon. iii) In case of CAD payment terms, Supplier shall send documents to BHEL's bank within 5 days of shipment. One set of original may be sent to any one of ROD, CMM-FE and MM, copy may be marked to the others. iv) For Air shipments through non-CONSOL (i.e., not through BHEL ROD's contract), Delivery Order (DO) should be given to BHEL without insisting for Bank Release Order (BRO). AWB to be drawn with BHEL Bhopal as consignee. v) It must be ensured that original shipping/commercial documents, if not provided to BHEL outside banking channel, should reach BHEL's bank at least 10 days prior to cargo arrival at port. vi) Part shipment and trans-shipment to be avoided to the extent possible especially where it is not possible to split shipping & commercial documents. Part shipment shall be strictly avoided for Airshipments.
11.3	General
	- For Hazardous chemicals, the materials safety data sheet (MSDS) is to be submitted. - All certificates as called must be sent. BHEL may test any goods supplied and their decision is final irrespective of supplier's certificates. If test certificate and guarantee certificate are not received along with the document and stipulated in these specifications, BHEL reserves the right to get the material tested and recover the expenses from the supplier without awaiting supplier's confirmation - Goods shall be properly packed to avoid transit damage. Suitable markings shall be provided to identify the goods with that of the PO No. and the consignee details. - Goods shall be consigned to AGM (CRX), BHEL, Piplani, Bhopal - 462022, India, unless otherwise specified in the PO.
12	Pricing Terms
12.1	Prices once quoted shall remain firm within the validity or any extension thereof for placement of order, till complete execution of the order, without any escalation/increase for any reason, whatsoever, unless specifically provided for in the Enquiry & PO. In case of foreign bidders, the quoted price shall be taken as inclusive of Third Party Inspection and testing charges as called for in the NIT.
13	Price Validity :
13.1	Unless stated otherwise in the enquiry, offer shall be valid for a period of 90 days from the date of Techno- commercial (Part-I) bid opening date.
14	Taxes & Duties - Indigenous Purchase
14.1	Bidder to ensure timely remittance of SGST, CGST, IGST as applicable in time as per law.
14.2	Bidder to ensure compliance to filing of monthly GST sales return including BHELs supplies by 10 th of next calendar month in the online GST portal wherever applicable.
14.3	Bidders to declare filing of timely returns and GST remittance/likely remittance /ITC adjustment along with invoice.
14.4	Bidder to submit invoices compliant with GST invoice Rules
14.5	Bidders to comply with all statutory provisions as may be applicable at the time of despatch/sale. Any additional financial liability to BHEL on account of non-compliance by bidders shall be borne by them and shall be adjusted / recovered from the bidders. BHEL reserves the right to review the existing offers / contracts for any revision in terms, which may arise due to change in any statutory provisions to ensure that the benefit accrues to BHEL.
14.6	Bidder to ensure TAX INVOICE submission along with consignment
14.7	In respect of cases where the liability to discharge GST is on BHEL under reverse charge mechanism, bidders have to ensure timely submission of invoices and delivery of material / services to BHEL, so that there is no mismatch on both activities. In case there is any additional financial liability on BHEL on account of default on the part of the bidder on submission or delivery of material / services the same shall be passed on to them.
14.8	Vendors who fall under the E-Invoice regulations shall issue e-invoice in line with Rule 48(4) of CGST Rules read along with latest extant rules, failing which GST amount will not be reimbursed to the vendor.
14.9	In respect of free issue material by BHEL, bidders have to return the processed material within the time line as per the provisions of GST. In case of any additional tax liability on BHEL on account of non-compliance by the bidder, the additional financial implications on BHEL shall be passed on to the bidder
14.10	Bidders to provide the applicable HSN / SAC codes as called for in the enquiry
14.11	As per provisions of section 171 of the CGST Act 2017, bidders to pass on the anti-profiteering benefits accruing to them under GST regime to BHEL
14.12	With reference to section 51 of CGST act 2017 read with notification no 50/2018 – Central tax dated 13.09.2018; BHEL will be liable to deduct TDS under GST with effect from 01.10.2018. Deduction shall be made @ 2% (1% CGST + 1% SGST) or 2% IGST (as applicable) of the payment made or the amount credited. Bidder to generate & submit invoices as per above.



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	The amount of TDS shall be deposited to the Government account and BHEL shall issue TDS certificate to deductees, TDS deposited in the Government account will be reflected in the electronic cash ledger of the deductee who will be able to use the same for payment of tax or any other amount. Deduction of TCS along with additional TDS will be as per prevailing Government guidelines.
15.	Taxes & Duties - Foreign Purchase — Imports
15.1	The offered prices shall be inclusive of all the Taxes and duties as applicable in the country of bidder / country of dispatch for the quoted CFR / CIF price.
16	Payment Terms-
16.1	Indigenous: 100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. In case of despatch of material to site directly, site certification for receipt of materials is required unless otherwise provided for in the PO. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate + 6% for the purpose of bid evaluation.
16.2	Foreign: 100% against irrevocable, unconfirmed LC, payable within 90 days of the Bill of Lading (B/L) date or Payment terms of CAD payable on 90th day of B/L / AWB. In case BHEL considers any deviation in payment terms i.e. early payment based on bidder's request, then bids shall be evaluated with loading of State bank of India Base rate plus 6%, for the credit period short of 90 days. The LC shall be established 2 months prior to shipment date, valid for period of 90 days, unless agreed otherwise. Documents to be submitted as per UCP600 and should reach BHEL/ BHEL's bank at least 7 days prior to vessel arrival.
16.3	Staggered Payment terms in case of Capital items /Balance of plant (BOP) item where services of installation /erecting & commissioning /supervision is desired with supply of items /goods will be separately mentioned in particular tender remarks /Special terms & condition /Additional terms and condition
16.4	Foreign bidders to submit declaration of Permanent Establishment and Business Connection (PEBC) for remittances purpose. Declaration to be submitted in formats either in Annexure A or B whichever is applicable as per their transaction entered into with BHEL. In the absence of certificates from the bidder, withholding tax at applicable rates along with surcharge and cess will be recovered at the time of remittance to the bidder.
16.5	Foreign bidders to submit Tax Residency Certificate (TRC) & Form 10F (for obtaining DTAA benefits) as per Annexure C in respect of services. The TRC (tax residency certificate) is to be issued by the authorities of the government of bidder's country. If the informative part of the format (other than residency) is not furnished by the authorities the same may be furnished by the bidder as a declaration.
16.6	BHEL Bhopal is registered with (TReDS) platform. MSME bidders are requested to get registered with (TReDS) platform to avail the facility as per the GOI guidelines.
17	Inspection of Goods
17.1	The Bidder shall give adequate notice, of 1 week or as mutually agreed period, in writing to the Purchaser (in case Customer inspection is involved) or BHEL appointed TPIA about the date and place at which the goods will be ready for inspection/ testing, as provided for in the contract.
17.2	Purchaser or his authorized representative shall be entitled to carry out inspection of material and workmanship/Surveillance Audit at Bidder's premises or at his sub-contractor's premises at all reasonable times during execution of contract; Such inspection, examination and testing, if made, shall not absolve the Bidder from his obligations under the contract. Wherever required, BHEL may carry out testing at BHEL's testing Lab and in case of any rejection during such testing, replacement / rectification, as required, will have to be done by Supplier. If BHEL carries out any rectification of such rejected material, such cost will be recovered from Supplier's Bills. In case of Customer inspection as Supplier's Works, inspection clearance to be obtained from Customer and submitted to BHEL.
17.3	BHEL's representative from unit or Corporate Quality (CQ) is authorised to carry out audits along with TPIA at bidder's works before clearing the items for despatch.
17.4	All costs related to inspections and re-inspections shall be borne by the Bidder. In case of inspection by BHEL and / or BHEL's customer, the cost of to & fro passage and Boarding & Lodging shall be borne by the Purchaser / Customer, unless otherwise specifically agreed. In case of foreign bidders, the cost of third party inspection, where called for, shall be deemed to be included in the quoted price. Bidder shall be responsible to provide assistance such as labour, materials, electricity, fuels, stores, apparatus, instruments at his cost, as may be required and as may be reasonably demanded to carry out such tests effectively.
17.5	REJECTION: If any goods are rejected, BHEL shall be at liberty to take action as per following:



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	a) Allow the supplier, wherever mutually agreed, to rectify the rejected goods at BHEL's works within reasonable time as fixed by BHEL. Or b) Allow the supplier to make free replacement within a specified period. Rejected goods can be lifted by the supplier thereafter. Or c) In case payment has been done, allow supplier to refund equivalent value of rejected material by NEFT / RTGS or furnish Bank Guarantee for same amount before lifting the rejected goods. Fresh replacement shall be regulated as per terms and condition of the original Purchase Order. In case payment has not been done, at instructions from BHEL, supplier has to rectify the rejected goods at supplier's works within reasonable time as fixed by BHEL. Or d) Terminate the contract either in part or in whole at the discretion of BHEL and invoke Breach of Contract clause, if any, from the supplier. Or e) Any goods rejected by BHEL must be removed by the supplier after making payment through NEFT / RTGS within 30 days after receipt of the intimation of rejection. If bidder fails to lift or allow despatch of rejected material at his cost within 90 days from the intimation of rejection, his claim on rejected material shall cease. Or f) In exceptional cases, allow the supplier for one-time replacement of defective items (quantity) within reasonable time.
18	Guarantee / Warranty and corresponding Repairs / Replacement of Goods
18.1	Manufacturer's works test/inspection certificates shall be furnished along with the guarantee that material conforms strictly to the specification for general & special conditions as laid down in the purchase order. Goods shall comply with the specifications for material, workmanship and performance. The warranty shall be for a period of 12 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Bidder shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Bidder at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores/ designated destination basis) within such period. In the event of the Bidder's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Bidder. In case the defects attributable to Bidder are detected during processing of the goods at purchaser's / his subcontractor's works, the Bidder shall be responsible for free replacement/ repair of the goods as required by the purchaser.
19	NOTE: Deviations (Commercial as well as Technical) from the tender specifications and conditions are generally not acceptable. However, deviation if any, shall be brought out clearly with proper justification in the offer. The deviation, if considered by BHEL shall be loaded for comparison, while evaluating the offer. If a bidder unconditionally withdraws any deviation before price bid opening, the same shall not be loaded. Loading criteria in respect of major commercial conditions where deviations if any are accepted shall be as per clause No.19.
19.1	Evaluation and Loading Criteria:
19.1.1	The evaluation currency for this tender shall be INR. Evaluation of the tender shall be on the basis of delivered cost, i.e. 'Total Cost to BHEL/Landed cost to BHEL ' w.r.t the technical scope and commercial conditions finalized after techno-commercial clarifications (after considering, inter alia, Customs Duty and GST / Other taxes as applicable). Exchange rate (TT selling rate of State Bank of India) applicable on the date of Part-I bid opening shall be considered for evaluation of foreign bids. If the relevant day happens to be a bank holiday in India, then the FOREX rate as on the previous bank working day shall be taken for evaluation. Foreign suppliers shall ensure that the benefits as applicable under Comprehensive Economic Partnership Agreement (CEPA) with Government of India are disclosed in the bid & relevant documents such as Certificate of Country of Origin, issued by the appropriate authority in the country of Export, is provided by the bidder along with dispatch documents. Bids shall be evaluated with such applicable benefits. In the event of Bidder failing to provide appropriate documents for Purchaser to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the Bidder's account.
19.1.2	Common Loading factors (in case of deviation quoted by bidders) INDIGENOUS 1) Deviation quoted in delivery terms in EX works against FOR destination: In case BHEL accepts the EX-Works prices, such offers will be suitably loaded with actual freight charges as per BHEL freight rate contract. 2) Loading (if any) in case of deviation in delivery period in delivery non- sensitive contracts will be declared separately in STC/ATC of particular tenders.



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	IMPORTS 1) Offer received on FOB/FCA basis may be considered on an exceptional basis. BHEL will load freight, marine insurance & shipping line port handling charges etc. to work out landed cost at Sea Port. 2) Import duty, Taxes and duties as applicable on the date of Part-I bid opening. COMMON LOADING FOR IMPORTS & INDIGENOUS that will be added for arriving the "Total Cost to BHEL" A. Loading on Deviated Penalty clause (LD) as per clause 9.1.14 of GTC B. Loading for payment terms as per clause 16.1 of GTC
20	Variation of orders
20.1	No variation to the Purchase order is permitted unless authorised in writing and signed by or on behalf of purchase executive, BHEL Bhopal.
21	Sub-contract
21.1	BHEL's order or part there off, if further to be subcontracted in exceptional circumstances the details of subcontracting and to whom to be subcontracted shall be furnished to BHEL and written permission shall be obtained from BHEL. However, it shall not absolve the supplier of the responsibility of fulfilling BHEL order requirements.
22	Recovery / deductions of amount from supplier
22.1	a Any amount on account of recovery from consignor / supplier under any condition shall be liable to be adjusted against any amount payable to the consignor/supplier against bills. b For any deficiency in supplies where deduction is involved, an amount as decided by BHEL, shall be deducted from supplier's bills.
23	Safety clause for purchase orders
23.1	The bidders shall maintain and ensure sufficient safety measures as required for inspections and test like HV test. Pneumatic test, Hydraulic test Spring test, Bend test, Material handling and safe working environment etc. to enable Inspection Agency for performing inspection. The bidder shall ensure that all the safety precautions specified in factories Act 1948 chapter-IV Section-21 to 41 are complied with respect to equipment's to be inspected. If any test equipment is found not complying with proper safety requirement, then the inspection agency may withhold inspection, till such time the desired safety requirements are met.
24	Non-Disclosure Agreement
24.1	All Drawing and technical documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. <u>BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.</u> DRAWINGS, PATTERNS & TOOLS: All drawings, patterns & tools supplied by BHEL or made at BHEL's expense are BHEL's property. These cannot be used or referred to any other party and must only be used in the execution of BHEL's orders. These should be preserved at the supplier's cost for a period of not less than 5 years. Patterns & tools should be returned to BHEL within 90 days of issue of the same.
25	Settlement of Disputes & Arbitration
25.1	All questions/interpretations regarding subject matter of the Contract shall be decided by the Purchaser on the request of the Bidder and the decision of the Purchaser shall be final.
25.2	In case of dispute, steps shall be taken by the parties to the contract to settle the same through negotiations.
25.3	In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the competent authority of the Purchaser.
25.4	Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the Parties, in respect of any dispute 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, 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 Unit/Region/Division issuing the Contract. The Arbitrator shall pass a reasoned award and the award of the Arbitrator 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 Bhopal.



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	The cost of arbitration shall be borne as per award of the Arbitrator. Subject to the arbitration in terms of Clause above, the Courts at Bhopal 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 Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract. Administrative Mechanism for Resolution of CPSEs Dispute as stated in https://dpe.gov.in/guidelines/guidelines/chapters/2673. In the event of any dispute or difference relating to the interpretation and application of the provisions of the commercial Contract between Central Public Sector Enterprises (CPSEs)/Port Trusts inter-se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning railways, Income Tax, Customs and Excise Departments), such dispute or difference shall be taken up by either party for resolution through Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) as mentioned in Department of Public Enterprises (DPE) Office Memorandum No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018 as amended from time to time."
25.5	The Bidder shall continue to perform the contract, pending settlement of dispute(s).
26	Applicable Laws and Jurisdiction of Courts
26.1	Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the Contract including Arbitration proceedings. The competent Courts at Bhopal in the State of Madhya Pradesh, India shall have sole jurisdiction.
27	RIGHT OF REJECTION /NON- PLACEMENT OF PO: BHEL reserves the right to accept the offers in part or in full, or cancel the Tender enquiry without assigning any reason.
28	Performance Bank Guarantee (PBG)/ Security Deposit (SD):
28.1	Wherever Security Deposit (covering contract performance) is called for in the Tender /NIT , the Performance Bank Guarantee (PBG) or Security Deposit (SD), hereafter referred as performance security is to be submitted by the successful bidder awarded the contract.. Performance security is to be submitted by the date specified in the contract. 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. The Bank Guarantee format should have the approval of BHEL. (iii) 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) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) - an international convention regulating international securities. a) Performance Security is to be furnished by a specified date (generally 14(fourteen) days after notification of the award) and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations. Forfeiture of Performance Security: The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier. PS shall be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. The Performance Security shall not carry any interest.
28.2	Composite 'Contract Performance Bank Guarantee' of matching value/ validity, where both Security Deposit and Performance Bank Guarantee are required, shall not be construed as deviation.
28.3	Wherever the contract is for supply of Goods processed on labor basis/mixed basis from BHEL supplied materials, the materials shall be issued against a suitable Bank guarantee as specified in the particular Enquiry/STC/ATC/Annexures.
28.4	Wherever PBG (covering equipment / system / work performance guarantee) is called for in the Notice Inviting Tender (NIT) deviation shall not be accepted



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

28.5	Bank Guarantee wherever called for, shall be in the BHEL prescribed format. In case the order is to be placed in foreign currency, the BG must also be in Foreign currency, so specified by the Purchaser
28.6	Wherever Security Deposit (covering contract performance) is called for in the NIT, deviation shall not be accepted.
28.7	Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT / contract, from the bills along with due interest
29	Benefits earmarked for Purchase from Micro & Small Enterprises (MSEs) – All benefits as per Government of India guidelines shall be given to eligible bidders. MSE bidders as defined by the MSMED Act as amended from time to time can avail the intended benefits only if they submit along with the offer, self-attested copies of relevant document, Udyam Registration as applicable stipulated in the MSMED Act or its rules/ regulations as amended from time to time and /or by the buyer. Non submission of such documents as stipulated hereinbefore will lead to consideration of their bids at par with other bidders. No benefit shall be applicable for the concerned for the tender enquiry, if any deficiency in the above required documents is not submitted before the price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements. In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL may reject the bid or, as the case may be, cancel the order and take necessary steps for suspension of the business dealing against the bidder as per the extant guidelines for suspension of business dealings with suppliers/ contractors of BHEL. Note: MSME benefits shall not be given to traders, Dealers or authorised agents. It may however be noted that MSE guidelines as on date (Date of Technical Bid Opening Part-1) shall prevail. As per the OM No. F. No. 1(2)(1)/2016-MA dtd. 09.02.2017 issued from the Office of Development Commissioner (Micro, Small & Medium Enterprises), "Traders and agents should not be allowed to avail the benefits extended under the PP Policy". In view of this, it is clarified that benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc. for the items offered but not manufactured by themselves.
29.1	MSEs shall be given tender documents free of cost and shall be exempted from payment of EMD. Tender documents shall be issued free of cost & no EMD wherever called for will be insisted upon. MSE bidders shall submit along with bid relevant documents w.r.t. their respective MSE status as per extant norms. Date to be reckoned for determining the deemed validity will be the last date of Technical bid submission. Non- submission of such document will lead to consideration of their bid, at par with other bidders and MSE status of such bidders shall be shifted to Non- MSE supplier till the supplier submit these documents.
29.2	In tender, participating MSEs quoting price within price band of L1+15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to at least 25% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately. A quantum of 6.25% (25% out of target of 25%), so earmarked, will be reserved for MSE's owned by SC / ST entrepreneurs who submit their bid with relevant documents provided that in event of failure of such MSE(s) to participate in tender process or meet tender requirements and L1 price, 6.25% sub-target for procurement earmarked for MSE(s) owned by SC or ST entrepreneurs shall be met from other MSE(s). A quantum of minimum of 3% reservation within the above mentioned 25% reservation, so earmarked, will be reserved for MSE's owned by women entrepreneurs who submit their bid with relevant documents provided that in event of failure of such MSE(s) to participate in tender process or meet tender requirements and L1 price, 3% sub-target for procurement earmarked for MSE(s) owned by women entrepreneurs shall be met from other MSE(s). In case of indivisible tender, the full quantity shall be awarded to L1.
29.3	If an enterprise falling under MSE category as defined in the MSMED Act 2006, graduates to a higher category from its original category or beyond the purview of the Act, it shall continue to avail all non-tax benefits of its original category notified by the Ministry of Micro, Small and Medium Enterprise for a period of three years from the date of such graduation to the higher category.
29.4	MSE bidders as defined by the MSMED Act as amended from time to time can avail the intended benefits only if they submit, self-attested copies of Udyam Registration certificate, along with the offer. No benefits shall be applicable for the enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	be submitted through e-procurement portal, then the above required self-attested documents are to be uploaded on the portal. No benefits shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required self-attested documents are to be uploaded on the portal. The deemed validity will be assessed on the date of bid opening (Part 1 in case of two part bid). Non submission of such documents as stipulated hereinbefore will lead to consideration of their bids at par with other bidders. No benefit shall be applicable for the concerned for the tender enquiry, if any deficiency in the above required documents is not submitted before the price bid opening. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements. In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL may reject the bid or, as the case may be, cancel the order and take necessary steps for suspension of the business dealing against the bidder as per the extant guidelines for suspension of business dealings with suppliers/ contractors of BHEL. In case if all the items being procured under the enquiry fall under category of reserved items as defined in “Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012” and if any of the MSE bidder(s) is techno commercially qualified then the price bids of only MSE bidders shall be opened. If no MSE bidder is techno-commercially qualified, then price bids of all techno-commercially qualified bidders shall be opened.																								
30	Integrity Pact (IP) — Independent external monitors (IEM) For tenders in which integrity pact is applicable, following points stand valid :																								
20.1	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. A panel of Independent External Monitors (IEMs) have been appointed to oversee implementation of IP in BHEL. 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. Name: ----- Address: ----- E-mail : ----- } As indicated in NIT / enquiry																								
30.2	Please refer section 8 of the IP for roles and responsibilities of IEMs. In case of any complaint arising out of tendering process, the matter may be referred to the IEM mentioned in the tender. NOTE: No routine correspondence shall be addressed to the IEM (phone / post/e-mail) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarifications/ issues shall be addressed directly to the tender issuing (procurement) department. For all clarifications/ issues related to the tender, please contact: <table><tr><td></td><td>(1)</td><td>(2)</td></tr><tr><td>Name</td><td></td><td></td></tr><tr><td>Landline No.</td><td></td><td></td></tr><tr><td>Mobile No.</td><td></td><td></td></tr><tr><td>Email</td><td></td><td></td></tr><tr><td>Dept.</td><td></td><td></td></tr><tr><td>Address</td><td></td><td></td></tr><tr><td>Fax</td><td></td><td></td></tr></table>		(1)	(2)	Name			Landline No.			Mobile No.			Email			Dept.			Address			Fax		
	(1)	(2)																							
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31	Fraud Prevention Policy : The Bidder along with its associate/ collaborators/ sub-contractors/ sub-bidders/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.																								
32	Integrity Commitment: The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com. Integrity commitment, performance of the contract and punitive action thereof :																								
32.1	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(s) in a transparent and fair manner, and with equity.																								
32.2	Commitment by bidder / Supplier / Contractor :																								



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

32.2.1	- The bidder / supplier / contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal code, 1860 or any other law in force in India. - The bidder / supplier / contractor 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 relevant guidelines issued from time to time by govt. of India / BHEL - The bidder / supplier / contractor will perform / execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business / money / reputation to BHEL.
32.2.2	If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in mal-practices, cheating, bribery, fraud or / and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then action may be taken against such bidder / supplier / contractor as per the extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions.
32.2.3	Preventive checks to eliminate suspected cartel formation between suppliers 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 Declaration by Bidders We declare that the following family firms or sister concern affiliates/ subsidiary firms are participating in the tender No _____ 1.0 _____ 2.0 _____ 3.0 _____ I _____ hereby declare on behalf of M/s _____ and family firms or sister concern affiliates/ subsidiary firms listed above that we are not indulging in cartel formation for Enquiry No _____. (_____) For M/s _____ Seal and Sign
33	Public Procurement (Preference to Make in India), Order 2017 For this procurement, Public Procurement (Preference to Make in India), Order 2017 Dtd 15.06.2017 and 28.05.2018 and subsequent orders issued by both DPIIT and the respective nodal ministries shall be applicable For this procurement, the local content to categorise a supplier as a Class I local supplier/ Class II local Supplier / Non-Local supplier is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT. Bidder to mention the percentage of local content and place of value addition to manufacture these items in the tender.
34	RESTRICTION UNDER RULE 144 (xi) OF THE GENERAL FINANCIAL RULES 2017: As per latest government guidelines
34.1	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.
34.2	"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 description of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in procurement process.
34.3	Bidder from a country which shares a land border with India" for the purpose of this order means: - - An entity incorporated, established or registered in such a country; or - A subsidiary of an entity incorporated, established or registered in such a country; or - An entity substantially controlled through entities incorporated, established or registered in such a county; or - An entity whose beneficial owner is situated in such a country; or



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	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.
34.4	The beneficial owner for the purpose of (iii) above will be as under: 1. In case of 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 shareholder’s 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.
34.5	An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
34.6	Model certificate for Tenders <i>“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 this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfills all requirements in this regards and is eligible to be considered. [Where applicable , evidence of valid registration by the Competent Authority shall be attached].”</i>
35	Conflict of Interest: "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/ subassembly/ 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 authorize 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



BP 200102B

HEAVY ELECTRICALS PLANT, BHOPAL

GENERAL TERMS AND CONDITIONS OF ENQUIRY

	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. "
36	Breach of contract, Remedies and Termination In case of breach of contract, wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is at least 10% of the contract value, the same be encashed. In case the value of the security instruments available is less than 10% of the contract value, the balance amount 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.
37	Option clause: The Purchaser reserves the right to decrease the quantity to be ordered at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

Note:

1.0 Tender Specific conditions shall override relevant provisions of this GTC

2.0 In the event of any change as notified by Govt. of India same will supersede the relevant GTC clause.

Techno-Commercial Bid (To be filled by supplier and submit with offer)		
Tender No.		2025_BHEL_49631_1 (E6953003)
Description :		RADIATORS 9 FLUTE X 24 ELEMENT X 3500 VC AS PER DRG. TR20081R (2 PAGES)& ANNEXURE FORM NO TRE-2003 A (5 PAGES) ATTACHED.QAP NO MQP NO -CC/QA&I/SMQP/01 REV00 TXB-112.REQUIREMENT IS FOR 13 SETS OF RADIATORS AND 1 SET CONSISTS OF 24 NOS OF RADIATORS.
Sr. No.	ELEMENTS	To be offered/confirmed by supplier
1	Supplier Code (If registered with BHEL otherwise can mention unregistered)	
2	Supplier Name	
3	GSTIN NO.	
4	PAN NUMBER	
5	QUOTATION REFERENCE	
6	CONTACT PERSON	
7	E-Mail	
8	PHONE	
9	MOBILE	
10	ADDRESS	
11	QUOTATION VALIDITY shall be valid for a period of 90 days from the date of Techno- commercial (Part-I) bid opening date.	
12	Price Basis as per NIT in Rs per set (Yes/No)	
13	Rate quoted are inclusive of all (P&F, Insurance and Freight charges) except taxes as per attached BOQ. Confirm (Yes/No)	
14	Prices are exclusive of GST - Confirm (Yes/No)	
15	GST % applicable	
16	Terms of Delivery- FOR Destination (Note : In case of deviation from NIT terms, your bid shall be suitably loaded to derive HESG rate). confirm (Yes/No)	
17	Dispatch Mode- (by road etc.)	
18	Supply from (City Name, State / UT)-	
19	Delivery Point (City Name, State / UT)- CRX BHEL Bhopal (Yes/No)	
20	To & Fro Transportation shall be in the scope of bidder(Yes/No)	
21	Please confirm DELIVERY REQUIREMENT - As per clause no.3 of Annexure-I. Confirm (Yes/No)	
22	UDYAM registration certificate to be attached alongwith bid (Yes/No)	
23	Are you registered under MSMED ACT 2006 as small or micro	

Techno-Commercial Bid (To be filled by supplier and submit with offer)		
Tender No.		2025_BHEL_49631_1 (E6953003)
Description :		RADIATORS 9 FLUTE X 24 ELEMENT X 3500 VC AS PER DRG. TR20081R (2 PAGES)& ANNEXURE FORM NO TRE-2003 A (5 PAGES) ATTACHED.QAP NO MQP NO -CC/QA&I/SMQP/01 REV00 TXB-112.REQUIREMENT IS FOR 13 SETS OF RADIATORS AND 1 SET CONSISTS OF 24 NOS OF RADIATORS.
Sr. No.	ELEMENTS	To be offered/confirmed by supplier
24	Payment Terms:- Indigenous: 100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL.	
25	Technical PQR acceptance alongwith bid and supporting documents as asked in PQR. Confirm (Yes/No)	
26	Signed & seal Specification of transformer radiators to be attached alongwith bid. Confirm (Yes/No)	
27	Local content certification to be attached alongwith bid (Yes/No).	
28	Acceptance of technical Specifications as per enquiry (Yes/No). Any deviation to be clearly mentioned.	
29	Acceptance of General terms & conditions BP200102B. Confirm (Yes/No)	
30	Signed & seal Integrity Pact to be attached alongwith bid. Confirm (Yes/No)	
31	Acceptance of clause 1 of annexure-I on conflict of interest among bidders. Confirm (Yes/No)	
32	LD- Penalty for late delivery shall be 0.5% of the undelivered portion per week of delay or part thereof, subject to a maximum of 10% of the undelivered order value owing to delayed delivery. Confirm (Yes/No)	

Subject: - Certification regarding local content- Public Procurement (Preference to Make in India)

Reference: - Tender Enquiry No-.....

Name of items: -

Dear Sir,

We hereby certify that the quoted items offered by us against Enquiry No..... is having local content of

Further, to certify that the local content % certified above is in line with definition of Local content given in point no 2 of Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT and we qualify as..... (Class-I/ CLASS-II/Non-Local supplier-fill in one which is applicable) local supplier.

We further confirm that details of location at which the local value addition is made will be at (address of the works).

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein, immediately. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it.

Yours very truly,

Authorized signatory

(Name of Company)

Annexure-1

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 HFC Enquiry Tender ID - 2025-BHEL-49631-1 (Radiators on Finished basis) (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 Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

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

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. 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 Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and 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 with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason 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 Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 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.
- 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 Secret/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 advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 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 Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the 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. Issues like warranty/ guarantee etc. shall be outside the purview 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.

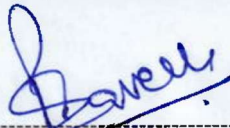
Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. 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. 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. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.


 For & On behalf of the Principal
 (Office Seal)
 प्रवीण सखान / PRAVEEN SACHAN
 स.प्र. प्रबंधक / Sr. Manager
 प्र.स. विभाग / A.S.C. Division
 प्र.स. विभाग, भोपाल / BHEL, BHOPAL

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

Place BHOPAL
 Date 19/06/2025

Witness: Lakshmi
 (Name & Address) LAKSHMI ARYA
BHEL BHOPAL

Witness: _____
 (Name & Address) _____

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.

Sl. No.	IEM	E-mail
1	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
2	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

(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 any of the above IEM(s). 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: Praveen Kumar Sachan

Deptt: ASC

Address: BHEL BHOPAL

Phone: (Landline/ Mobile)-0755-2505827

Email: sachanpraveen@bhel.in

Fax: Nil

(2)

Name: Farhan Ahmad

Deptt: ASC

Address: BHEL BHOPAL

Phone:(Landline/Mobile):-0755-2505640

Email: farhan@bhel.in

Fax: Nil



Form No. 2038

उत्पाद मानक

परिणामित्र

शॉप / अभि. निर्देश

PRODUCT STANDARD

TRANSFORMER

SHOP/ENGG. INSTRUCTION

TR20081R

2 पृष्ठों में 1

PAGE 1 OF 2

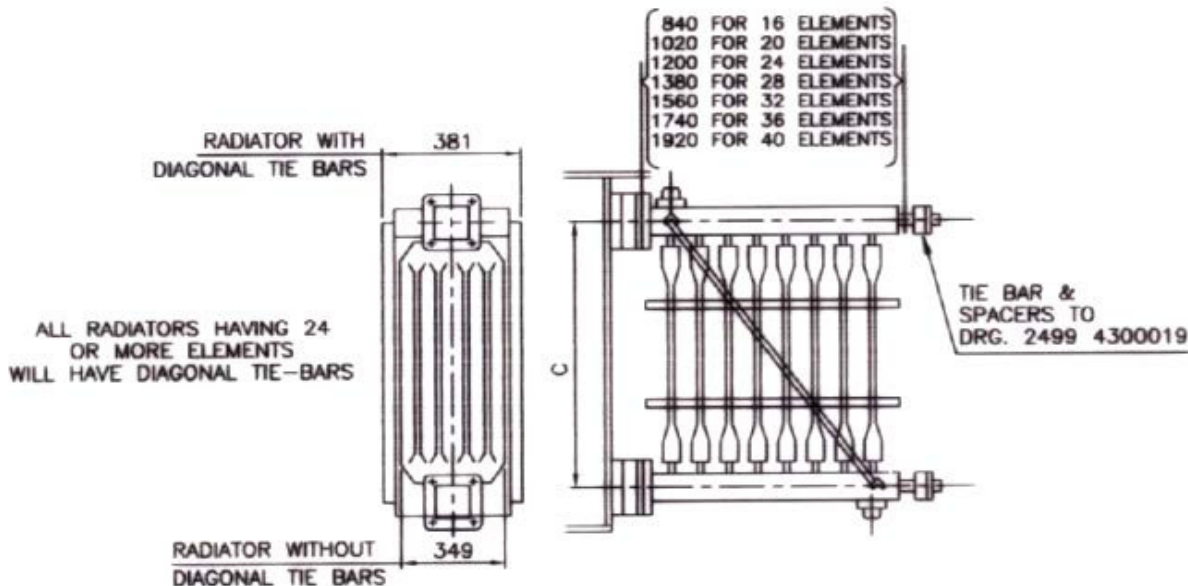
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COMP. DRG.

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Title : RADIATORS (A). 5 FLUTE ELEMENTS



“C” VALVE CENTRES	OIL QUANTITY IN LITRES							SURFACE AREA IN SQ. METERS						
	NUMBER OF ELEMENTS							NUMBER OF ELEMENTS						
	16	20	24	28	32	36	40	16	20	24	28	32	36	40
1300 mm	57.00	70.50	85.00	99.00	112.00	-	-	13.39	16.73	20.07	23.40	26.74	-	-
1600 mm	67.00	83.50	100.00	116.50	133.00	-	-	16.70	20.87	25.03	29.20	33.37	-	-
2020 mm	85.00	105.00	125.50	146.00	166.50	-	-	21.34	26.66	31.99	37.31	42.64	-	-
2325 mm	95.00	118.00	141.00	165.00	188.00	211.00	-	24.71	30.87	37.04	43.21	49.37	55.54	-
2630 mm	-	131.50	157.00	183.00	209.00	235.00	261.00	-	35.08	42.09	49.10	56.11	63.12	70.13
2935 mm	-	-	173.00	202.00	230.00	258.50	287.00	-	39.29	47.14	54.99	62.84	70.69	78.54
3500 mm	-	-	203.00	237.00	269.00	302.00	335.00	-	47.08	56.49	65.90	75.30	84.71	94.11

“C” VALVE CENTRES	WEIGHTS FOR RADIATOR (WITHOUT OIL) IN KGS.						
	NUMBER OF ELEMENTS						
	16	20	24	28	32	36	40
1300 mm	169.00	208.00	257.50	297.00	337.00	-	-
1600 mm	204.00	251.50	310.00	359.00	407.00	-	-
2020 mm	253.00	313.00	385.00	446.00	506.00	-	-
2325 mm	288.00	357.00	439.00	509.00	578.00	647.50	-
2630 mm	-	404.50	494.00	572.00	650.50	729.00	807.00
2935 mm	-	446.00	548.00	635.00	722.00	809.00	896.00
3500 mm	-	528.40	648.00	751.70	854.40	957.20	1061.00

NOTES :-

- FOR GENERAL ARRANGEMENT REFER DRG. NO. 04994300007.
- RADIATORS UP TO 32 ELEMENTS SHALL BE PREFERRED.
- THIS DRG. REPLACES DRG. C600717 (R-2-6) & THE WEIGHTS AND OIL QUANTITY IS COMPLETELY REVISED.

TR20081R

PAGE 1 OF 2

पुनः Rev.
05
दि. Dt.
10/06/21

SHEET REAFFIRMED.

Rashmi Nitin NKM

वितरण DISTRIBUTION.

सं.

स्वीकृत किया :

APPROVED : Sd/- BSB, SNA

पुनः Rev.
04
दि. Dt.
10/07/14

SHEET REAFFIRMED.

ARVIND S.K.G. A.DEOTA

TRE/TRM/FTM
TRX/TTG
QC-TCB/QA-TCB 1
JHANSI

तैयार किया PREPD.

Sd/- TRS

जारी किया ISSUED

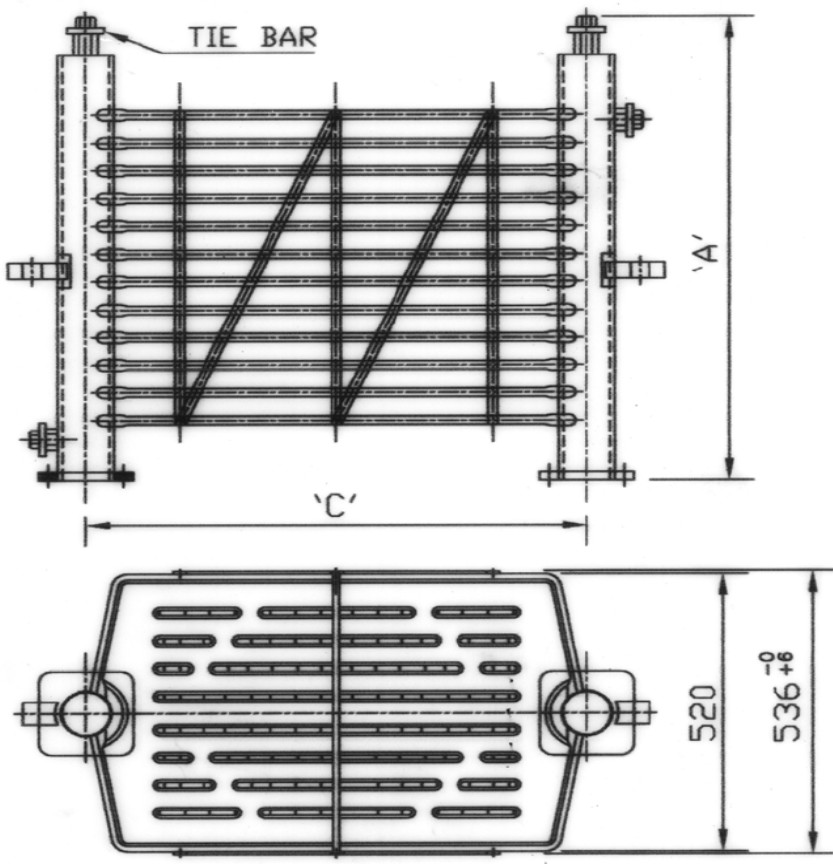
टीआरई/मानक TRE/STD.

दिनांक DATE

16.04.90

REF. C600717 (R 26)	COMP. DRG.	 Form No. 2038	उत्पाद मानक परिणामित्र शॉप / अभि. निर्देश	PRODUCT STANDARD TRANSFORMER SHOP/ENGG. INSTRUCTION	TR20081R	
				2 पृष्ठों में 2	PAGE 2 OF 2	

Title : RADIATORS (B). 9 FLUTE ELEMENTS



NO. OF ELEMENTS	DIMENSION "A"	SURFACE AREA IN SQ. METERS																	
		NUMBER OF ELEMENTS																	
		12	14	16	18	20	22	24	26	28	12	14	16	18	20	22	24	26	28
12	816	16.20	18.89	21.57	24.26	26.96	-	-	-	-	16.20	18.89	21.57	24.26	26.96	-	-	-	-
14	926	21.55	25.13	28.71	32.29	35.87	39.45	-	-	-	21.55	25.13	28.71	32.29	35.87	39.45	-	-	-
16	1036	24.23	28.25	32.28	36.30	40.33	44.36	-	-	-	24.23	28.25	32.28	36.30	40.33	44.36	-	-	-
18	1146	-	-	37.62	42.98	48.35	53.70	59.02	64.44	-	-	-	37.62	42.98	48.35	53.70	59.02	64.44	-
20	1256	-	-	-	53.69	60.39	67.10	73.80	80.50	87.20	-	-	-	53.69	60.39	67.10	73.80	80.50	87.20
22	1366	-	-	-	-	70.45	78.28	86.10	93.92	101.73	-	-	-	-	70.45	78.28	86.10	93.92	101.73
24	1476	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	1586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	1696	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

"C" VALVE CENTRES	WEIGHTS FOR RADIATOR (WITHOUT OIL) IN KGS.								
	NUMBER OF ELEMENTS								
	12	14	16	18	20	22	24	26	28
1200 mm	176.00	204.00	232.00	262.00	290.00	318.00	347.00	376.00	404.00
1600 mm	231.00	269.00	306.00	344.00	381.00	420.00	458.00	496.00	534.00
1800 mm	259.00	301.00	343.00	386.00	426.00	471.00	513.00	556.00	599.00
2400 mm	342.00	389.00	454.00	511.00	564.00	623.00	679.00	736.00	792.00
3000 mm	425.00	495.00	565.00	636.00	703.00	776.00	846.00	916.00	986.00
3500 mm	-	-	-	742.00	820.00	905.00	987.00	1069.00	1150.00

NOTES:-

1. FOR GENERAL ARRANGEMENT REFER DRG. NO. 04994300010.

TR20081R

PAGE 2 OF 2

"C" VALVE CENTRES	OIL QUANTITY IN LITRES																		
	NUMBER OF ELEMENTS																		
	12	14	16	18	20	22	24	26	28	12	14	16	18	20	22	24	26	28	
1200 MM	59.00	68.50	78.00	87.50	97.00	-	-	-	-	-	59.00	68.50	78.00	87.50	97.00	-	-	-	-
1600 MM	76.33	88.50	101.00	113.50	126.00	136.00	-	-	-	-	76.33	88.50	101.00	113.50	126.00	136.00	-	-	-
1800 MM	85.00	98.50	112.50	126.50	140.50	154.00	-	-	-	-	85.00	98.50	112.50	126.50	140.50	154.00	-	-	-
2400 MM	-	129.00	147.00	165.00	183.00	202.00	220.00	-	-	-	-	129.00	147.00	165.00	183.00	202.00	220.00	-	-
3000 MM	-	-	182.00	204.00	227.00	249.50	272.00	294.50	317.00	370.00	-	-	182.00	204.00	227.00	249.50	272.00	294.50	317.00
3500 MM	76.33	88.50	101.00	238.00	264.50	291.00	317.50	344.00	370.00	-	76.33	88.50	101.00	238.00	264.50	291.00	317.50	344.00	370.00

पुनः Rev. 05 दि. Dt. 10/06/21

पुनः Rev. 04 दि. Dt. 10/07/14

SHEET REAFFIRMED.

RASHMI NITIN NKM

SHEET REAFFIRMED.

ARVIND S.K.G. A.DEOTA

वितरण DISTRIBUTION.

TRE/TRM/FTM TRX/TTG QC-TCB/QA-TCB JHANSI 2

सं. स्वीकृत किया :

APPROVED : Sd/- BSB, SNA

तैयार किया PREPD. जारी किया ISSUED दिनांक DATE

Sd/- TRS टीआरई/मानक TRE/STD. 16.04.90

TXB-112

STANDARD MANUFACTURING QUALITY PLAN FOR

EHV Transformer up to 765kV

(STANDARD MQP no. CC/QA&I/SMQP/01 Rev 00)

TAR-11/2

Manufacturer Name & Address:			Manufacturing Quality Plan for EHV Transformers up to 765kV													
Customer			VENDOR CODE		Item Description		MQP No.		Validity of MQP						Remarks	
			Power Grid Corporation of India Ltd.		EHV Transformers up to 765 kV		CC/QA/SMQP/01 Rev 00		As per MQP letter							
SI No.	Components and Operations	Type of check	Quantum of check	Reference document	Acceptance norms	Form of record	Applicable Codes									
							1	2	3	4	5	6				
1.29	SILICAGEL BREATHER															
1.29.1	Dimension, Type and model check	Measurement	100%	BHEL Drg BHEL Spec POWERGRID Spec	Within tolerance, Type and model as per drg	CMTC	A/B	J/K	S/P	W			E	Record review on surveillance basis		
1.29.2	Check of healthiness & colour of Silica gel	Visual			No visible defect. Gel colour is blue/Orange	CMTC	A/B	J/K	S/P	W					N	
1.29.3	Pressure test by blanking oil cup end	Measurement		No leak at 0.35 kg/cm ² (for 30 Min)	CMTC	B	K	P	W			N				
1.30	RADIATOR															
1.30.1	Visual check of raw material (CRC steel) finish	Visual	100%		No surface defect	CMTC	B	K	P	W			N	CIP for 1 unit of each contract. Balance record review on surveillance basis		
1.30.2	Chemical composition of raw material (CRC steel)	Measurement	1 sample/lot			CMTC	B	K	P	W/Z			N			
1.30.3	Mechanical properties of raw material (CRC steel)	Measurement				CMTC	B	K	P	W/Z			N			
1.30.4	DP test on lifting lug welds	Visual				CMTC	B	K	P	W/Z			N			
1.30.5	Leakage test at 2 kg/cm ²	Visual		POWERGRID spec, POWERGRID approved Drg, BHEL Spec BHEL Drg IS 513		CMTC	B	K	P	W/Z			N			
1.30.6	Surface cleaning of header support & bracing details by shot blasting (Record review)	Visual	100%			CMTC	B	K	P	W/Z			N			
1.30.7	Visual check of paint shade, paint film thickness & outside film adhesion test.	Visual				CMTC	B	K	P	W/Z			N			
1.30.8	Dimensional check after final welding flange centre & overall	Measurement			Dimension within Tolerance	CMTC	B	K	P	W/Z			N	Record review on surveillance basis		
1.31	DRUMS FOR INSULATING OIL (if applicable)															

Manufacturer Name & Address:  BHEL BHOPAL		Manufacturing Quality Plan for EHV Transformers up to 765KV											
		Customer		VENDOR CODE	Item Description	MQP No.		Validity of MQP					
SI No.	Components and Operations	Type of check	Quantum of check	Reference document	Acceptance norms	Form of record	1	2	3			4	5
Code 1: Indicates place 'where testing is planned' to be performed i.e. inspection location													
A. At equipment manufacturer's works B. At component manufacturer's works C. At authorised distributors place D. At independent Lab E. At Turn Key contractors location F. Not Specified													
Code 2: Indicates 'who has to perform' the tests i.e. Testing agency													
J. The equipment manufacturer K. The component manufacturer L. The Third party M. The turnkey contractor													
Code 3: Indicates 'who shall witness the tests' i.e. witnessing agency													
P. Component manufacturer itself Q. Component manufacturer and equipment manufacturer R. Component manufacturer, equipment manufacturer and contractor S. equipment manufacturer itself T. equipment manufacturer and contractor U. equipment manufacturer and contractor and POWERGRID V. Third party itself													
Code 4: Indicates 'review of test reports/certificates'													
W. By the equipment manufacturer X. By contractor during product/process inspection Y. By POWERGRID during product/process inspection Z. By contractor and/or POWERGRID during product/process inspection													
Code 5: Whether 'specific approval of sub vendor make is envisaged'													
E. Envisaged N. Not Envisaged													
Code 6: Whether 'test records required to be submitted' after final inspection for issuance of CIP/MIC													
Y. Yes N. No													