

REQUEST FOR QUOTATION - ONLINE BIDDING



BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER:
MKAE000006

MMI:PU:RF:003

SI No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	TI0668104236 CONTACTOR 2P 250A 110VDC * HSN/SAC : 3921 Mfr Part No.- LTCS02502005900 Vendor - MICROELETTRICA SCIENTIFICA SPA Mfr Part No.- C1215/02 Vendor - SCHALTBAU INDIA PVT.LTD. Mfr Part No.- SP2A2103CL Vendor - RITRA TECHNOLOGIES LLP CONTACTOR 2P 250A 110VDC, Microelettrica Scientifica Part no.LTCS02502005900	436	NO	436	

Total Number of Items - 1

NOTES: 1. This RFQ is governed by: a) INSTRUCTIONS TO BIDDERS/SELLERS and GENERAL CONDITIONS OF CONTRACT FOR PURCHASE available at http://edn.bhel.com (RFQ-PO Terms & Conditions) b) Any other specific Terms and Conditions mentioned. of offers are required to furnish authorization letter for the same. 2. Tender Result can be viewed in the website. * The HSN/SAC no mentioned against the line items in the RFQ are indicative only.	For and On behalf of BHEL. Meerthika S Control Equipment
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1. SCOPE

The Pre-Qualification Requirement document specifies the requirements to be met by the vendors (hereafter called Bidder) who wish to participate in the tender for supply of **pre-charge contactor 2P 250A for rolling stock applications.**

This PQR should be read in conjunction with the Purchase Technical Specification **PS/445/2703 R01 dtd 31.08.2026.**

2. CREDENTIAL

- a) The Bidder should be Manufacturer or authorized dealer / supplier of – **pre-charge contactor 2P 250A** used in Rolling Stock applications. Documentary proof like relevant POs / invoice copies, valid authorization certificate etc shall be provided along with the offer.
- b) The Rolling Stock Applications under consideration shall include Locomotive, EMU, MEMU, Metro Trains, High Speed Trains, Train sets, Inspection Cars and Special Track Machines.
- c) For the vendors outside India, documentary proof for usage of the product in rolling stock applications shall be submitted. Acceptance of such certification shall be at BHEL's discretion.
- d) The Bidder should not be under the category of "hold" or "blacklisted" by any of the BHEL units/ any Govt of India PSU/ Govt of India/ statutory bodies of any state Govt as on date of bid submission. A declaration to this effect shall be submitted along with the offer.

3. QUALITY SYSTEM

- a) The manufacturer should have valid ISO 9001:2015 or latest certification covering the manufacturing and testing of the subject item
- b) The manufacturer should possess a clearly laid down quality Assurance Plan for the product covering the following aspects
Organization Chart, clearly indication the quality control set up
Qualification of key personnel and officials deployed in the quality control cell.
- c) Process Flow Chart indicating process of manufacture for an individual product or for a family of products, if the process is same.
- d) Quality Assurance System – Inspection and Testing plan to cover
 - Incoming material
 - Process control
 - Product control
 - System control
 - Testing facility
- e) Stage inspection details shall include the inspection procedure, inspection parameters, method of testing/ test procedure, sample sizes for destructive & non-destructive testing etc.
- f) Calibration scheme and status of calibration of test equipment
The process, testing and measuring equipment shall be duly calibrated by approved agency and the validity of calibration should be current.

4. GENERAL REQUIREMENTS

- a) It is preferred that the bidder is the manufacturer of this item. If the bidder is importing some portion of the components, then minimum value addition in India shall be 20%. Bidder to confirm this in the offer. Value addition less than 20% is not acceptable. A declaration to this effect shall be submitted along with the offer.
- b) The technical bid of bidders, which qualify technically but are not approved for the subject item by the Customer Approving Authority, shall be referred by BHEL to the customer Approving Authority for approval with intimation to the bidder. Consequent to the decision of Customer Approving Authority, the bidder shall be added to the vendor list of the subject item for future tenders. Concurrently BHEL shall consider placing developmental order on the bidder after assessing the capability of the bidder to manufacture / develop the subject item. However, BHEL shall treat the offer as “Not meeting” Pre-Qualification Criteria for the subject tender.
- c) The Customer Approving Authority shall be RDSO/CLW/BLW/PLW/ICF/RCF/MCF or any other agency as designated by the Customer.
- d) The bidder should possess a valid type test report, not older than five years, as per relevant standards mentioned in the specification with respect to time during the bid submission in case of catalog items. In case of custom made items, a bidder can submit the type test report of an item of similar or higher rating with a declaration for conducting the type test in case of award of order or developmental order. The bidder can also submit the test reports conducted in their own facility with the document of their lab accreditation. However, BHEL reserve it's right to insist on conducting the Type test again in a laboratory of it's choice.
- e) For the bid of vendors already qualified and appearing in BHEL's source list, the requirement of type test report and proof of supply shall not be applicable.

5. DOCUMENTATION TO BE SUBMITTED ALONG WITH OFFER

- a) Documentary proof for experience as per clause 2.a
- b) Clause by Clause compliance to the technical specification
- c) Declaration regarding status as per clause 2.d
- d) Declaration on MII (Make in India) as per clause 3.a
- e) Declaration for conducting Type Test as per clause 3.d



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PURCHASE SPECIFICATION
GROUP: TRACTION ENGINEERING

P.S NO.: PS/445/2703

REV. NO: 01

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REVISION HISTORY SHEET

REV. NO	DATE	NATURE OF CHANGE	REASONS	PREPARED BY	APPROVED BY
00	05.01.2021	FIRST ISSUE	--	L Sunitha	R S Agosh Chandran
01	31.08.2026	SECOND ISSUE	--	Vipindas C P	Gurunath Y

THIS DOCUMENT IS A SPECIFICATION CUM DATA SHEET. VENDOR TO FILL UP ALL CONFIRMATIONS AND DATA AS REQUIRED AND SUBMIT THE SAME TO BHEL / EDN, BANGALORE. ANY DEVIATIONS TO THIS DOCUMENT TO BE BROUGHT OUT CLEARLY BY VENDOR.

REVISION 01 DT: 31.08.2026

APPROVED BY:
Gurunath Yankanchi, DGM/TE

PREPARED BY:
Vipindas C P

ISSUED BY
TE

DATE
31.08.2026



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PURCHASE SPECIFICATION
GROUP: TRACTION ENGINEERING

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SPECIFICATION FOR
PRECHARGE CONTACTOR



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PURCHASE SPECIFICATION
GROUP: TRACTION ENGINEERING

P.S NO. : PS/445/2703

REV. NO: 01

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1.0 INTRODUCTION:

A charge circuit is used to pre-charge the HV-capacitors before the main contactor is closed to avoid high inrush peak-currents. Normally the magnetically operated charge switch will only make current, only in abnormal situations (short circuit in the traction converter) the switch has to break current.

2.0 FUNCTION:



The maximum current to be switched off during abnormal situations at 3000V is 60A, the current is limited by the 50 Ohm resistor. For voltage sharing, the two contacts of the charge switch shall be put in series. The charge switch shall be operated electromagnetically.

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PURCHASE SPECIFICATION
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3.0 CHARACTERISTICS

Electrical Characteristics

Rated Operational Voltage [Vac/Vdc]	1500
Max Operational Voltage [Vac/Vdc]	2000
Rated Insulation Voltage [V]	2000
Maximum current (rated thermal current) A	100
Breaking capacity A	100
Number of poles	2
Blow Out Circuit Type	Permanent Magnet

Mechanical Characteristics

Mechanical Endurance (cycles)	2x10 ⁶
Shock and Vibrations (IEC61373)	Cat.1 - Class B
Weight [kg]	approx 3 - 3.5

Environmental Conditions

Stock Temperature Range	50°C to +85°C
Operational Temperature Range	-40°C to +75°C
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 / OV3
Max Altitude without Performance Derating [m]	1500

Note:

- 1) Proper terminal stickers (A1, A2, K1, K2 etc.,) shall be used with good quality adhesive for terminal identification.
- 2) All cable termination points shall be accessible from front side considering the maintenance aspect in locomotive.
- 3) Vendor has to provide holes in baseplate to match BHEL's existing panel mounting arrangements.



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4.0 INSPECTION

The type test reports from a NABL accredited laboratory to be provided along with the technical offer. For series supplies, Routine test reports are to be provided.

5.0 APPLICABLE NORMATIVE STANDARD

The offered system shall generally conform to the following normative standards

- IEC 60529 for IP68 protection
- EN 50121-2 EMC: Emissions to external environments
- IEC60077 Rules for equipment for onboard rail vehicles
- IEC 61287 Power Converters on board rolling stock
- IEC-61373 Electric Railway Equipment-Rolling Stock-Shock & Vibrations Requirements

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6.0 DIMENSIONS

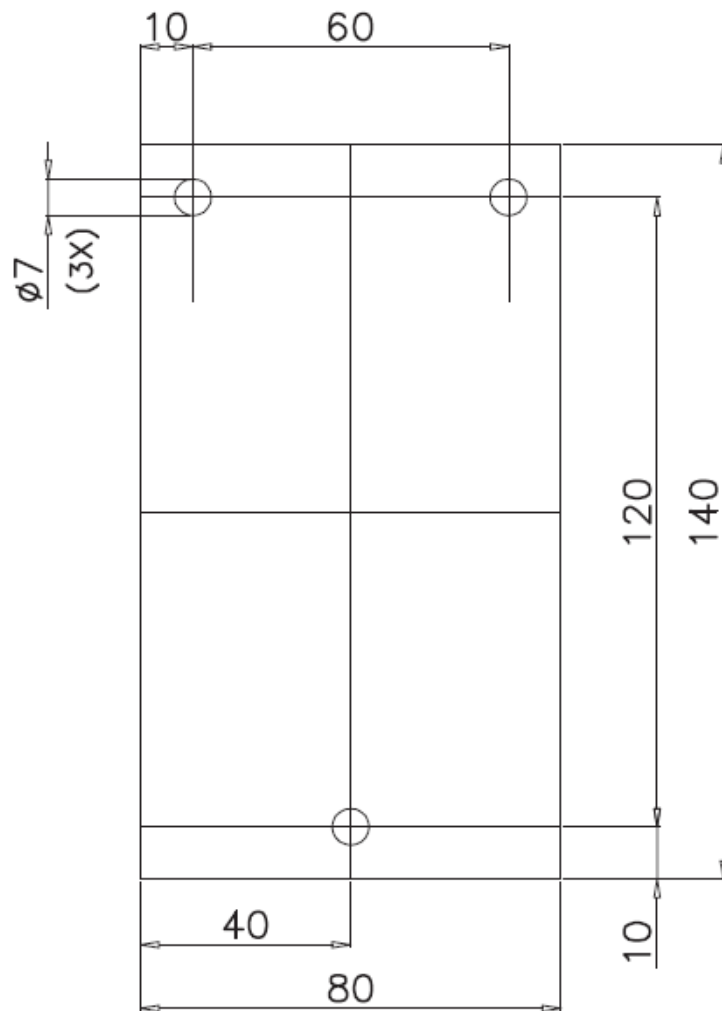


Fig.1- Dimensional details

COMMERCIAL BID				
Tender department: Traction- MM, EDN, BHEL, BANGALORE			RFQ/NIT/Enquiry no.	MKAE000006
		Bidder Name		
		Bidder contact number		
		Bidder email id		
Item: CONTACTOR 2P 250A 110VDC				
Tender floated through NIC e-Procurement system Website - https://eprocurebhel.co.in/nicgep/app . Vendor to submit offer only through NIC e-Procurement system.				
Sr. No	DESCRIPTION	Details	Bidder's Acceptance / Response	Remarks if any
1	Price Basis	The quoted prices will be firm till supply completion of the tendered quantity.		
2	Terms of Delivery	DDL, BHEL EDN, Bangalore (Free delivery to EDN/BHEL Bangalore including packing & forwarding charges)		
3	Delivery Period	Please indicate the best possible delivery schedule for RFQ quantity from the date of issue of Purchase order with best possible quantity per month.		
4	Payment Term	100% within 45 days from the date of receipt of material at BHEL EDN Stores.		
5	Evaluation of L1 vendor	Evaluation will be done on item wise, lowest bidder will be considered for ordering.		
6	Penalty for delay in delivery	Penalty of 0.5% per week at the basic price of the good for undelivered quantity of supply portion, subject to a maximum of 10%.		
7	Loading towards Penalty for delay in delivery	For any deviation in penalty term, the offer will be liable for loading as per Clause No. D of ITB.		
8	Pre shipment inspection	Not Applicable .Test Certificate required		
9	Other terms & conditions	For detailed Terms and Conditions, kindly refer to the following:A: INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP:Rev 04) available at www.edn.bhel.com (RFQ-PO Terms & Conditions)B: GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP:Rev 02)available at www.edn.bhel.com (RFQ-PO Terms & Conditions)		
10	Validity	Quotation should remain valid for a period of 90 days from the due date.		
11	Reverse Auction	Not Applicable.		
12	Declaration for GFR 2017 Rule	Declaration to be uploaded (Format attached)		
13	Declaration for Make in India (MII)	Declaration to be uploaded (Format attached).		
14	Declaration	The bidder declares that they will not enter into any illegal or undisclosed agreement of understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, 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 extent policies/guidelines.		

Sr. No	DESCRIPTION	Details	Bidder's Acceptance / Response	Remarks if any
15	Warranty	Warranty period shall be applicable for a period of 18 months from the date of delivery of goods.		
16	No Deviation	We hereby confirm that all the terms & conditions of tender are accepted without any deviation and any . Any additional commercial term or deviation in commercial term mentioned anywhere else shall be ignored and not be considered for evaluation		
17	MSME	Submit UDYAM Certificate if applicable. Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer: Type under MSE SC/ST Owned Women Owned Others (excluding SC/ST & Women Owned) Micro Small Note: If the bidder does not furnish the above in the tender, offer shall be processed construing that the bidder is not falling under MSE category. PI provide "TReDS Registration Code" alongside standard fields (PAN, GSTIN, UDYAM registration).		
18	Authorization letter	Valid authorization letter from OEM to be provided if dealer.Offer will be liable for rejection if valid authorization letter is not provided by the dealer.		
19	Documents for bill processing	i)One copy of invoice with DC to be sent alongwth the material. ii)Vendor should necessarily upload the despatch docs & digitally signed invoice on BHEL SUVIDHA portal at https://suvidha.bhel.in/suvidha/ for payment processing.All documents as per PO checklist must be uploaded on the portal for payment processing.		
20	Note -			
	(1) Any tender condition does not prohibit any bidder to submit their offer along with clause wise deviation from the specification/commercial terms of tender. Changes, if any, in technical specification / Scope etc shall be informed to participating bidders only. (2) Any additional commercial term or deviation in commercial term, if sought by vendor, should be clearly brought out in this commercial bid document. Any additional commercial term or deviation in commercial term mentioned anywhere else shall be ignored and not be considered for evaluation (3) Any technical or commercial clarification for this tender can be raised within one week of floating tender. No clarification will be entertained by BHEL after given cutoff date. Clarifications with regard to the tender shall be addressed to purchase officers whose e-mail IDs are given below: meerthika@bhel.in (4) The evaluation currency for this tender shall be INR. (5) Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 are eligible to bid in this tender.Minimum 50% Local content required for qualifying as Class I Local Supplier and Minimum 20% Local content required for qualifying as Class II Local Supplier. (6)MII Purchase preference and MSE Purchase preference is applicable for this tender. Bidder Sign & Seal			

Tender Terms - Conflict of interest

Ref: BHEL Tender / RFQ / NIT Number

Treatment of cases regarding conflict of interest:

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

i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly

ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;

iii) Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both 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.

For M/s

Authorized Signatory

(with company seal & Name)

ON COMPANY LETTER HEAD

Date -

MODEL CERTIFICATE FOR TENDER REQUIRED AS PER Rule 144(Xi) of GFR 2017

To,

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

Ref:

Tender No. –

Company Name -

I have read the clauses 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 fulfils all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the competent authority shall be attached)

Authorized Signatory
(Name of signatory with company seal)

On Bidder Letter Head

Date:

To,

M/s Bharat Heavy Electricals Ltd.

Electronics Division, Mysore Road,'

Bangalore – 560026

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

Ref: BHEL Tender / RFQ / NIT Number

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

Tick appropriate option & cut the other one:

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

a)

b)

c)

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

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

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

[Factory Address]

For M/s

Authorized Signatory

(with company seal & Name)

"For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT ."

On Bidder Letter Head

Date:

To,

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

Sub: Model Clause / Certificate as per Annex-III (Tenders) of Restrictions Under Rule 144 (xi) of the General Financial Rules (GFRs) 2017, Dated 23.07.2020.

Ref: BHEL Tender / RFQ / NIT Number

I (authorized signatory for M/s) have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India , we certify that this bidder M/s[Vendor Name & address] is not from such a country or , if from such a country , has been registered with the competent authority . We hereby certify that we fulfill all requirements in this regard and is eligible to be considered [attach evidence of valid registration certificate with competent authority].

For M/s

Authorized Signatory
(with company seal & Name)