



Ref. FSIP/EOI/FP/2025-26-001

Date: 21.06.2025

Expression of Interest

Subject: Development of Vendors for the supply of Neutral Fuse Flux at BHEL

This has reference to the Expression of Interest (Eol) published on BHEL's website www.bhel.com for Vendor development for the supply of the Neutral Fuse Flux as per the requirement placed by BHEL.

1) Introduction:

This Expression of Interest (Eol) seeks responses from prospective Vendors who are Original Equipment Manufacturers (OEMs), fulfilling all the requirements of this Eol, and are willing to be associated with Bharat Heavy Electricals Limited (BHEL) for the supply of the Neutral Fuse Flux Specification No. BHEL/FP/TS/31. The Vendor needs to supply the Neutral Fuse Flux as per the requirements of the BHEL.

2) About Bharat Heavy Electrical Ltd (BHEL):

BHEL is a leading state-owned company, wherein the Government of India is holding 63.17% of its equity. BHEL is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing organization in India, catering to the core infrastructure sectors of Indian economy viz. energy, transportation, and heavy engineering industry, and defense, renewable and non-conventional energy. The energy sector covers generation, transmission and distribution equipment for thermal, gas, and hydro, nuclear and solar photovoltaic. BHEL has been in this business for more than 50 years and has supplied equipment's accounting for more than 57% (approx. 180 GW) of the total thermal generating capacity in India. BHEL is also listed in Indian stock exchanges. BHEL has 16 manufacturing units, 4 power sector regions, 8 service centres and 15 regional offices besides host of project sites spread all over India and abroad. BHEL has its footprint in all the inhabited continents with references in 88 countries including Malaysia, Oman, Iraq, Syria Sudan, Libya, Cyprus, Malta, Afghanistan, Bangladesh, Bhutan, New Zealand etc. with cumulative overseas installed capacity of BHEL manufactured power plants nearing 10,000 MW. The annual turnover of BHEL for the year 2021-22 was around US\$ 2.78 Billion. BHEL's highly skilled and committed manpower of approx. 30000; state-of-the-art manufacturing, R&D facilities and latest technologies helped to deliver a consistent track record of performance since long. To position leading state-owned companies as Global Industrial giant and as a recognition for exemplary performance, Government of India categorized BHEL as "Maharatna Company" in 2013.

The high level of quality & reliability of BHEL products is due to adherence to international standards by acquiring and adapting some of the best technologies from leading companies in the world, together with technologies developed in its own R&D centers. For more details about BHEL, please visit our website <http://www.bhel.com>.

3) About Fabrication Stamping & Insulator Plant (FSIP) unit of BHEL

BHEL FSIP, Jagdishpur is spread in about 150 Acre area, located in Amethi District of Uttar Pradesh, 80 Kms away from Lucknow on Lucknow-Varanasi National high-way and is well connected by railroad and air as well.

FSIP unit involve in the manufacturing of Power plant Structures, Stamping for traction motors & generators and High tension Porcelain Insulators, Ceramic wear resistant lined components & liners.

FSIP has well-established manufacturing systems and procedures and has the requisite skilled and experienced manpower. The Units are certified for the Quality Management System against ISO9001:2015 and Health,



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Safety & Environmental Management (HSE) System for ISO-14001:2015 & ISO45001:2018. The products of FSIP are tested and certified with respect to relevant National & Inter National standards at reputed laboratories. The operations of FSIP are supported by BHEL Corporate R&D.

4) Present Expression of Interest:

BHEL is looking for **Indian OEM vendors** who can supply **Neutral Fuse Flux Specification No. BHEL/FP/TS/31** to FSIP as per the requirements. Based on this Eol process the selected vendor will supply the **Neutral Fuse Flux** to the BHEL as per the requirements.

BHEL shall receive applications pursuant to this Eol in accordance with the terms set forth herein, as modified, altered, amended, and clarified from time to time by BHEL, and all Applications shall be prepared and submitted in accordance with such terms. This is an Open Ended EOI unless until superseded and interested OEMs may approach BHEL FSIP Jagdishpur at any working day.

5) Scope of Supply:

BHEL seeks a prospective Vendor for supply **Neutral Fuse Flux Specification No. BHEL/FP/TS/31** to FSIP as per the requirements. Average Annual requirement of Neutral Fuse Flux is about 60 MT at FSIP, Jagdishpur and it may change depending upon requirement of BHEL and market scenario.

6) Obligations of Prospective Vendor(s):

The obligations of the selected vendor (s), inter alia, shall be as below:

- A) Any kind of CAPEX deployment to meet the BHEL requirements will be done by Vendor only. BHEL will not be responsible for any kind of capital expense.
- B) The Prospective Vendor is required to confirm that in case of getting shortlisted as a result of this Eol process, the following support shall necessarily be provided to BHEL.
 - i The vendor needs to qualify the Neutral Fuse Flux at FSIP, Jagdishpur or the labs specified by BHEL.
 - ii Neutral Fuse Flux required for qualification shall be provided free of cost to FSIP, Jagdishpur FOR basis. Samples once submitted shall be used for testing & qualification and shall not returned.
 - iii Vendor may submit fresh samples with necessary improvements for further evaluations.
 - iv After Sample qualification, vendors whose samples are qualified, need to participate in tender for placement of PO. Vendors need to supply the Neutral Fuse Flux as per specification within the specified time as per the PO requirements
 - v Any other statutory requirement felt necessary as per the various notifications issued by the Central Govt or State Govt agencies.

Above mentioned requirements are only indicative in nature, however, any other document/information/input required by BHEL shall have to be provided by the prospective vendor.

7) Selection of Prospective Vendor(s):



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Based on the information provided under this Eol, the prospective vendor(s) shall be shortlisted on the basis of the Details/Information specified in **Annexure-1**. The techno-commercial negotiations might be held if required with the shortlisted prospective vendor(s). **BHEL may place developmental order as deemed fit by BHEL to prospective vendor based on their company background, technical capabilities /features/ product catalog, commitment made for development of indigenous manufacturing capacity. However BHEL is not bound to release developmental order to any or all participants of this EOI.**

8) Brief Description of the EOI Process:

The interested prospective vendor(s) shall ensure that their response(s), along with details requested as per the Annexures of this Eol. The response(s) shall necessarily be accompanied by details on the company background, technical features/ product catalog, reference list, annual audited financial reports for the last 3 (three) years including auditor's report and other enclosures as required under the present Eol. The responding prospective vendors(s), on submission of their response(s), can be called for further discussions at a short notice.

The vendor registration will be done as a result of the EOI.

Date of commencement of the EOI: 21.06.2025

Date of End of the EOI: open ended unless superseded with new version.

The respondent shall submit their responses with all Annexures duly signed. In case any further information is needed, kindly feel free to contact us. In case any amendment/ corrigendum is issued to this Eol, it shall be notified only at www.bhel.com.

9) Contact details:

The respondent shall submit/send their offer with all annexures duly signed at the following addresses:

RAKESH KUMAR
Manager-Material Management
Fabrication Stamping & Insulator Plant
Bharat Heavy Electricals Limited I.A.
Jagdishpur, Amethi-227817, U.P. Mob: +91
8429937575
Email: rakesh.kumar@bhel.in

OR

Vivek Srivastava
Engineer/FP-PPC
Fabrication Stamping & Insulator Plant
Bharat Heavy Electricals Limited I.A.
Jagdishpur, Amethi-227817, U.P.
Mob: +91 9795935059
Email: vivek@bhel.in

10) Miscellaneous:

A. Right to accept or reject any or all Applications:

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- 1) Notwithstanding anything contained in this Eol, BHEL reserves the right to accept or reject any Application and to annul the Eol Process and reject all Applications, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that BHEL rejects or annuls all the Applications, it may, at its discretion, invite all eligible OEMs/Suppliers to submit fresh applications.
- 2) BHEL reserves the right to disqualify any Applicant during or after completion of Eol process, if it is found there was a material misrepresentation by any such Applicant or the Applicant fails to provide, within the specified time, supplemental information sought by BHEL.
- 3) BHEL reserves the right to verify all statements, information and documents submitted by the Applicant in response to the Eol. Any such verification or lack of such verification by BHEL shall not relieve the Applicant of his obligations or liabilities here under nor will it affect any rights of BHEL.
- 4) The qualification of any vendor doesn't obligates BHEL for placing a P.O or any other type of the financial obligations.

B. Governing Laws & Jurisdiction

The Eol process shall be governed by, and construed in accordance with, the laws of India, and the Courts at Amethi (UP) shall have exclusive jurisdiction over all disputes arising under, pursuant, to and/ or in connection with the Eol process.

Annexure-1

Details/Information required from prospective Vendor

Experience & Qualification

S No.	Item	Requirement	Confirmation
1	Experience	The prospective vendor should preferably be manufacturer of the Neutral Fuse Flux / Welding Flux / Flux for SAW SMAW	Yes/No
2	Manufacturing Capacity	Vendor to submit manufacturing capacity in	Yes/No
3	Financials	Annual audited financial reports for the last 3 (three) years	Yes/No

**Relevant documentary evidence to substantiate the fulfilment of the above requirements is to be furnished along with the response.*



Disclaimer:

The information contained in this Expression of Interest document (the “Eol”) or subsequently provided to Applicant(s), whether verbally or in documentary or any other form, by or on behalf of BHEL or any of its employees or advisors, is provided to Applicant(s) on the terms and conditions set out in this Eol and such other terms and conditions subject to which such information is provided.

This Eol is not an agreement .The purpose of this Eol is to provide interested prospective Vendors with information that may be useful to them in the formulation of their application for qualification pursuant to this Eol.

BHEL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this Eol.

The issue of this Eol does not imply that BHEL is bound to select and shortlist Applicants for the next stage or to enter into any technology tie-up agreements with shortlisted Applicants for the project.




PLANT PURCHASE SPECIFICATION		No.	BHEL/FP/TS/31	
FABRICATION PLANT		Rev. No.	02	
DEPARTMENT: PRODUCTION		Rev. Dt.	09.03.2017	
CSU & FP, Jagdishpur				

Technical Specification for Neutural Fused Flux F7P2 - EM 12 K/EH14

Sr.No.	Description	Requirement	Vednor to Furnish/Confirm	Offered	Deviation	Remark
1	Technical Details:					
1.1	F7P2 - EM 12 K/EH14	As per SFA 5.17 of ASME Sec IIC Ed 2013	Vendor to Confirm			
1.2	Flux Type	Neutral Fused Flux				
1.3	Particle Size	20 to 100 mesh				
1.4	Weight of packet	25 kgs to 50 kgs				
1.5	Flux Form and particle size	As per SFA 5.17 of Clause 17.1 ASME Sec IIC Ed 2013				
1.6	Usability	As per SFA 5.17 of Clause 17.2 ASME Sec IIC Ed 2013				
1.7	Packaging	As per SFA 5.17 of Clause 17.3 ASME Sec IIC Ed 2013				
1.8	Marking of packages	As per SFA 5.17 of Clause 17.4 ASME Sec IIC Ed 2013				
1.9	Storage and Drying condition	All details regarding storage, drying condition and shelf life.	Vendor to sepecificy			

File No. FSIP-FABOPPC(IDIP)/8/2025-FSIP-FP_PRDN (Computer No. 181057)

		PLANT PURCHASE SPECIFICATION		No.	BHEL/FP/TS/31	
		FABRICATION PLANT		Rev. No.	02	
		DEPARTMENT: PRODUCTION		Rev. Dt.	09.03.2017	
CSU & FP, Jagdishpur						
Technical Specification for Neutural Fused Flux F7P2 - EM 12 K/EH14						
Sr.No.	Description	Requirement	Vednor to Furnish/Confirm	Offered	Deviation	Remark
2	Tests Required for Flux					
2.1	* Tensile Test	As per SFA 5.17 of ASME Sec IIC Ed 2013				
2.2	* Impact test (Charpy): 5 Samples at - 20 °F on 2 mm V - notch	Average of three samples (Discarding Highest and lowest values): 27 J min. Two of the values used for computing average shall ≥ 27 J Single Value (Min) : 20J				
2.3	* The test mentioned at clause 2.1 and 2.2 to be done after carrying out PWHT as mentioned at clause 3		Vendor to Confirm			
2.4	A packet 25 Kgs to be submitted along with the offer for further technical evaluation, if required. Vendor to submit samples within 7 days after intimation by BHEL. We will check the following characteristic: a) Finish and Uniformity of weld bead b) Slag Removal c) Porosity and undercut d) No smoke The parametrs for welding will be as follows: Current: 350- 500 A Voltage: 30 - 36 V Electrode extension: 25 ± 6 mm Travel speed: 250 - 450 mm /min		Vendor to Confirm			



CSU & FP, Jagdishpur

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Technical Specification for Neutural Fused Flux F7P2 - EM 12 K/EH14

Sr.No.	Description	Requirement	Vednor to Furnish/Confirm	Offered	Deviation	Remark
QUALIFYING CONDITIONS:						
3.1	Only those makes and brand shall be quoted of which atleast 5 Ton is supplied to any heavy fabrication industries in the past 3 years and the flux has performed satisfactorily. The following information is to be submitted by the vendor about the companies where the quoted wire has been supplied.		Vendor to Confirm			
3.2	Name of the customer / company where flux has been supplied.		Vendor to specify			
3.3	Complete postal address of the customer.		Vendor to specify			
3.4	Year of supply.		Vendor to specify			
3.5	Application for which the Flux is supplied with details.		Vendor to specify			
3.6	Name and designation of the contact person of the customer		Vendor to specify			
3.7	Phone, FAX no. and email address of the contact person of the customer.		Vendor to specify			
3.8	BHEL reserves the right to verify information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.		Vendor to specify			
File No. FSIP-FAB0PPC(IDIP)/8/2025-FSIP-FP_PRDN (Computer No. 181057)						