

'Expression of Interest' for Development of Integrated Pedal Unit for BEML Heavy Duty Truck (HDT)

1. Objective:

BEML Limited is a Defence PSU under the Ministry of Defence (MoD), Govt. of India. BEML HDT vehicles are mainly used for General Service and special projects carrying super structures as per MOD requirement. As part of indigenous program, the development and production of Integrated Pedal Unit. In this regard, BEML intends to identify reputed developer and supply of Integrated Pedal Unit and associate in integration and testing. Annual consumption of Integrated Pedal Unit are more than 600 numbers.

2. i) Integrated Pedal Unit:

The Integrated Pedal Unit must enable the integration of clutch and brake actuation systems. It should integrate the clutch and brake pedal assembly, master cylinder, dual-brake valve, and clutch and brake switches. Signals to ECU must be produced by micro switches and mechanical switches with respect to the pedal's movement.

IPU must be easy to assemble and easy to operate and control the truck performance..

Features

1. Master Cylinder Diameter : 26 mm diameter / Equivalent
2. Mechanical and micro switches to be integrated with integral pedal unit
3. Hydraulic fluid reservoir tank to be integrated with master cylinder in integral pedal unit
4. IPU must be ready-to-fit assembly on the vehicle's firewall and should reduce the vehicle's assembly time
5. IPU must facilitate adjusting critical vehicle parameters – namely, pedal home position, pedal free play, pedal travel and switch actuation – should be easily adjusted and controlled.



Fig 1: Integrated Pedal Unit view from cabin front & rear



Fig 2: Integrated Pedal Unit installed in cabin

2. Scope of work:

Based on the response from Interested Firms for this EOI, Separate RFQs will be floated to shortlist one capable firm for development of Integrated Pedal Unit.

NDA and MoU will be signed with the final firm evaluated in the RFQ. BEML will issue drawing & specifications to the firm.

- A. The Integrated Pedal Unit development and Production is planned in three phases
 - 1) Development stage: 5 sets Integrated Pedal Unit to be developed within 1 month of contract.
 - 2) Pilot Production stage: 10 sets of Integrated Pedal Unit to be produced based on feedback of prototypes within 1 month from prototype clearance.
 - 3) Bulk Production stage: More than 600 numbers in the first year after pilot batch clearance by BEML/MoD.
- B. The brief scope of work is,
 - a. The firm has to offer the Integrated Pedal Unit assembly for inspection and clearance by BEML.
 - b. Supply the Integrated Pedal Unit to BEML along with quality records for having complied for materials, processes and dimensions.
 - c. Associate with BEML during integration, furnishing, internal trials and MoD performance evaluation trials.
- C. Firm has to give test certificates along with Integrated Pedal Unit.

3. Pre-Qualification Criteria:

Interested firms shall fulfill the following criteria while submitting the EoI.

- i. Firm having more than 5 years of experience in design, development, and development of Integrated Pedal Unit.
- ii. Firm with sound financial status – Consistently profit making for the past 3 years.
- iii. Firm should be certified for the latest Quality Management System.

- iv. EOI may be responded by individual firm or a consortium of firms represented by a lead member. In case of consortium, lead member shall respond to the EOI and will be responsible for the success of the program.
- v. The firm shall have the following basic and essential facilities to qualify to this EOI.
 - a) Latest CAD software & hardware for handling Design & Documentation
 - b) Capability to design and development of Integrated Pedal Unit.
 - c) Possess requisite for Integrated Pedal Unit testing facilities as per CMVR.

4. Details of the firm to be provided with necessary supporting documents:

- i. Company Registration certificate indicating name of the firm, year of establishment, incorporation details, Members of the Board, URL of the firm's website.
- ii. Name of the contact person, address, Telephone, Fax & email
- iii. Number of years of experience in design and development of Integrated Pedal Unit.
- iv. Copy of the Supply Orders to brief the past and similar ongoing projects, if any.
- v. Details of IT infrastructure and certificates of quality management system of the firm.
- vi. Financial performance documents (Audited Balance sheets and Profit & Loss statements etc.) with details of turnover for last three (3) years
- vii. Details of Contract(s) or order(s) terminated before completion, if any
- viii. Details of any premature termination of job/supply order/contract for Min of Defence, India or any other Government / Quasi Government organization in India.
- ix. Value of largest two projects executed in last 5 years
- x. Capability to furnish Bank guarantees.
- xi. Details of important customers

Note: The responses from Firms/OEMs that are black listed/restricted by Government of India or its Agencies will not be considered.

5. Submission of EOI:

In this context, Eoi in sealed cover, Providing manufacturing capability details, documents, similar existing product development details, covering letter and certificates (MSME,ISO etc) shall be submitted by interested reputed firms, superscribing **“Expression of Interest’ for development of Integrated Pedal Unit”** on or before 14:00 hours of 16.09.2019, to

**DGM–Materials
BEML Ltd., Palakkad Complex,
Kinfra Wise Park,
Menonpara Road,
Kanjikode
Palakkad-678 621
Kerala,
India.**

**For any queries please contact below mentioned details:
Tel(Off):04912568178**

Email: pm@beml.co.in

The last date for receipt of EOI at the above address will be as per the information published and will be opened on the same date at 1515 hrs.

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