



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 7653

Email : skaruna@bheltry.co.in

spsy@bheltry.co.in

kmk@bheltry.co.in

Web : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2741700001	06.11.2017	06.12.2017

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity	(Indigenous Vendors) Matl. will be Delivered to
10	Battery Operated Handheld Engraving Machine as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	2.00 Nos.	FOR, BHEL, Stores Power Plant Piping Unit Thirumayam 622507, Pudukkottai Dist.

Important points to be taken care during submission of offer

1. Material shall be delivered to: Indigenous Vendors: As stated above.
Foreign Vendors: CFR Chennai Seaport / Airport
2. Delivery required 2 Months from the date of purchase order.
3. Erection & Commissioning period required 2 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
4. EMD for this Tender will be (INR) : 40,000.00
5. Compliance Form Nos.: TMM/IMP/03 & TMM/IND/03A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
6. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM / CE / GENL / 001 - EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <https://eprocure.gov.in/epublish/app> under above Enquiry reference.

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present
<https://eprocure.gov.in/epublish/app>

Yours faithfully,
For BHARAT HEAVY ELECTRICALS
LIMITED

Manager / Capital Equipment / MM

S.PARTHASARATHY
MANAGER
CAPITAL EQUIPMENT / MM
BHEL, TRICHY-620014.

**TECHNICAL SPECIFICATION FOR
BATTERY OPERATED HANDHELD ENGRAVING MACHINE
PART – A**

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) shall have at least FIVE Years of Experience in the Design, Manufacture & Supply of “engraving machines”.	
1.2	Only those vendors (OEMs), who have Manufactured, supplied and commissioned at least ONE Handheld type engraving machine-Dot peening type similar to the machine specified under Part B, in the last FIVE years [as on date of this tender opening(first date)] should quote.	
1.3	Vendor has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of Handheld type engraving machine-Dot peening type specified in clause 1.2 supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on date of this tender opening(first date)]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
1.4	BHEL reserves the right to verify the information provided by the Vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	Vendor shall provide contact details (phone no & email id) including the address of his Agents / Service Centres in India.	
2.2	Details of Handheld type engraving machine-Dot peening type machines supplied to BHEL units, if any. (Year of commissioning, Application, Type)	
2.3	Number of Handheld type engraving machine-Dot peening type supplied and commissioned till date (to quote the equipment supplied during the last three years only)	
2.4	The BIDDER/VENDOR to furnish Reference List of Customers (max 10 customers) including Contact details (phone no & email id).	

Suggestive Format of Performance Certificate:

The performance certificate should be produced **on Customer's Letter Head.**

PERFORMANCE CERTIFICATE

- | | | |
|---|--|---------------------------------|
| 1 | Supplier of the machine | |
| 2 | Make & Model of the M/C | |
| 3 | Month & Year of Commissioning | |
| 4 | Application for which M/C is used | |
| 5 | a. Weight of the machine | |
| 6 | Performance of the Machine
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 7 | After sales service
(Strike off whichever is not applicable) | Satisfactory / Not Satisfactory |
| 8 | Any Other remarks | |
| 9 | | |

Performance certificate issued date:

Signature & Seal of the Authority
Issuing the Performance Certificate

Contact details of issuing authority
Name & Designation:
Office No/ Mobile no:
Email ID:

Technical Specification Part-B Battery operated Hand Held Engraving Machine			
Sl.No	Particulars	BHEL Specification	Vendor Specification / comments
1.0	Application	Hand held battery operated engraving machine is used to engrave data (Alphanumeric ,scientific symbols, company logos etc) on the job.	
2.0	Method of operation	Dot peening	
3.0	Job details		
3.1	Materials	Carbon steel, alloy steel, Stainless Steel, Aluminium Alloys (Hardness value max: 25HRC)	
3.2	Job Dia	60mm to 1500mm. Vendor should specify any accessories like column etc for easy engraving on smaller dia parts.	
3.3	Job length	Minimum 300mm	
3.4	Job types	tubes, pipes, rods, plates etc	
4.0	Engraving Unit		
4.1	Character heights	Shall be variable from 4mm to 20mm	
4.2	Required characters	Numbers 0 - 9, Capital letters / Small letters A - Z; a - z Various punctuations marks e.g. . ; / , etc.	
4.3	Engraving Language	English	
4.4	Font Orientation	Straight (angular & radial orientations are also preferable)	
4.5	Depth of engraving	Vendor to specify minimum & maximum value for engraving on material with hardness value of 25 HRC. Minimum marking depth should be 0.3mm in mild steel	
4.6	Dot Density	Vendor to specify maximum no.of dots per inch	
4.7	Speed of Engraving	Vendor to specify exact speed of engraving in characters per minute for a particular character height & width and dots density	
4.8	Size of engraving window	Minimum Length 80mm Minimum Height 25mm	
4.9	Weight of Marking head & Controller	If both is built as single unit : < 5kg If they are separet units, each: < 5kg	
	Sound/Noise level	Not more than 85 dbA	
5.0	Indenter details		
5.1	Diameter of indent	Vendor to specify	
5.2	Material of indent	Vendor to specify	

Technical Specification Part-B			
Battery operated Hand Held Engraving Machine			
5.3	Life of the tip	Vendor to specify	
6.0	Controller / Programming unit <i>The controller may be</i> Type-A : Integral with the Marking head Type-B : Separate unit connected by cable to Marking unit Type-C : Controlled by Tablet through WIFI connectivity using WIFI Hotspot in the Engraving unit Vendor to mention which type is offered		
6.1 to 6.4 for Type-A or B			
6.1	Display	Digital display	
6.2	Input	Dust proof Alpha numeric and special characters Keypad or Touch screen	
6.3	Pc connectivity / Bar code scanner compatibility	USB/RS232 port to connect to PC / Bar code reader. Vendor to provide the details.	
6.4	Internal memory	Minimum 400 programs	
6.5 to 6.8 for Type-C			
6.5	Android App.	Proprietary android application to operate the Engraving unit shall be installed in the Tablet	
6.6	Tablet Hardware & OS	Tablet with out SIM provision with minimum specifications as below a. Android OS Ver 5.0 b. Quad core processor c. 1GB RAM d. Internal storage 8GB e. Micro SD Card slot to read minimum 16GB	
6.7	Tablet Display	a. Diagonal size of screen: Minimum 7" b. Resolution : Minimum 1024x600 pixels c. Display type : Capacitive touch screen	
6.8	Tablet Battery capacity	Minimum 4000 mAh	
6.7	Tablet Acceptable Brands	Samsung, Lenovo, Micromax, Xiaomi, Xolo and any other brands acceptable to BHEL	
7.0	Accessories	Vendor has to specify if any	
8.0	Power supply	Rechargeable battery operated type. Optional provision to operate using single phase AC, 230V, 50Hz, electric power supply with out battery as indicated in 8.4	
8.1	Battery type & capacity	Rechargeable Lithium Ion or Lithium Polymer	
8.2	Battery capacity	Vendor to specify in AH	
8.3	Battery Charger	One number is to be supplied	

Technical Specification Part-B Battery operated Hand Held Engraving Machine			
8.4	Power adaptor (Optional)	Power adaptor to operate the machine (with out battery) using Electric power AC 230V, 50hz, single phase. Rate to be quoted separately	
9.0	O & M manuals	One hard copy and one soft copy in English for each machine is to be provided	
10.0	Tesr certificate	The equipment shall be tested for its performance at supplier's work prior to dispatch of the equipment and test certificate shall be provided.	
11.0	Prove out	Vendor to prove out on job trails- 4 Engravings during commissioning of the machine at BHEL, Thirumayam	
12.0	Commissioning	Vendor to commission the machine at BHEL, Thirumayam	
13.0	Training	Vendor has to give training at BHEL, Thirumayam	
14.0	Guarantee	Guarantee for a period of 12 months from the date of commissioning of the equipment at our works .	
15.0	Scope of Supply		
	Item	Item Description	Quantity
15.1	Battery operated Hand Held Engraving Machine	Each one unit consisting of items listed below ('a' to 'f') and other items essential to operate the unit a. Engraving Unit with integral or separate control unit or Tablet and engraving tool bit - 1 set b. Rechargeable Battery - 1 Number c. Battery charging unit - 1 Number d. Operation & maintenance tools - 1 set e. One hard copy and one Soft copy of Manual in English - 1 set f. One carry case to keep the above items	2 units
15.2	Spare tool bit	Tool bit for Engraving indentor	4 numbers
15.3	Rechargeable Battery	Spare Rechargeable Battery	2 number
15.4	Power adaptor (Optional)	Power adaptor to operate the machine (with out battery) using Electric power AC 230V, 50hz, single phase.	2 number