

	BHARAT HEAVY ELECTRICALS LIMITED, RUDRAPUR	BHEL Enquiry No.	14E0048
		Due Date	20/06/2014
		Supplier's Offer Ref:	
		Supplier's Offer Date:	
[Techno-Commercial Bid – PART1]			

Specification cum Compliance Certificate for SELF PROPELLED UNDER-SIDE EDGE BEVELING MACHINE

Note:-

1. The 'Offered' Column and where applicable, the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Vendor and submitted along with the
2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the supplier (OEM):	Name & Address of the Indian Agent:
Telephone No.	Telephone No.
Fax No.	Fax No.
e-mail:	e-mail:
<p>Scope: Supply, Erection and Commissioning of <u>SELF PROPELLED EDGE BEVELING MACHINE</u> complying with the following Techno-commercial terms & conditions.</p>	
<p>Offer is to be submitted in <u>TWO-PART</u> bids [Techno-commercial bid(Part-1) + Price bid(Part-2)] in separate sealed envelopes, in turn both envelopes placed together in a third sealed envelope.</p>	
<ul style="list-style-type: none"> • <u>Pre-Qualification Criterion: Bidder must have successfully completed installation and commissioning of at least one similar machine in any unit of BHEL or otherwise successful installation and commissioning of at least TWO similar machines in other PSUs, Railways and Govt. bodies in <u>last five years (2009-2014).</u></u> • Offers of bidders not satisfying pre-qualification criterion are liable for rejection. 	
<ul style="list-style-type: none"> • Does your Firm fulfill the above-mentioned Pre-Qualification Criterion? (YES/NO) 	

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
1.0	PURPOSE & WORK PIECE MATERIAL				
1.1	Purpose: For beveling of under-side edge of Plate	Full Beveling			
1.2	Work Piece Material:	Aluminium Alloy (Tensile strength 35kgf/mm²)			
2.0	SPECIFICATION				
	MACHINE CONFIGURATION: Portable self-propelled Plate Edge Beveling Machine along with adjustable trolley with Adjustable Beveling Head to produce Bevel Angles 22.5° through 55° with Undercarriage for Easy Height adjustment, producing clean machined bevels with no thermal distortion, The equipment should be designed for beveling underside of the plate without need for flipping the work piece over.				
2.1	CAPACITY & SIZE				
2.1.1	Beveling Capacity Range (Aluminium Alloy)	6-38 mm. tk. Plate			
2.1.2	Max Plate Length	5050mm			
2.1.3	Max plate Width	2500mm			
2.1.4	Maximum Beveling width	17mm			
2.1.5	Maximum Bevel depth	13 mm			
2.1.7	Bevel Speed suitable for above job	3000 mm/min or Vendor to specify			
2.1.8	Motor Power	Vendor to specify			
2.1.9	Weight	Vendor to specify			
2.1.10	Working Height from floor level suitable for above job	Vendor to specify			
2.2	ESSENTIAL ACCESSORIES				
2.2.1	Standard deep tooth cutter (medium cut)-suitable for Aluminium alloy (06 Nos.)	Vendor to specify			
2.2.2	Spares/components required for fitting of cutter	Vendor to specify			
2.2.3	Recommended set of spares for machine like Adjusting Screw, Washer, T Nut, Main support Bolt, Chip Deflector, Cutter Nut, Cutter Washer, Screw Shaft, Hand Wheel etc for two year trouble free operations.	Vendor to specify			

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3.0	ELECTRICAL:				
3.1	<p>415V+10% / -10% , 50 HZ +/- 3 HZ, 3 Phase AC (3 wire system without neutral) Power Supply Voltage will be provided by BHEL at a single point near the machine, as per layout recommended by vendor. All types of cables, connections, circuit breakers etc. required for connecting BHEL's power supply point to different parts of the machine/control cabinets, shall be responsibility of the vendor.</p> <p>Requirement of grounding /earthing with required material details is to be informed by vendor well in advance so that same could be incorporated during construction of foundation.</p>	Vendor to Confirm			
4.0	TROPICALISATION:				
4.1	All Electricals / electronic equipment shall be tropicalized.	Vendor to Confirm			
4.2	All electrical components in the cabinet should be mounted systematically.	Vendor to Confirm			
4.3	Motors shall conform to IEC or Indian Standards.	Vendor to Confirm			
4.4	The electrical components used shall be from reputed international makes such as Siemens / Telemechanique / Merlin Gerin / GE/ ABB and shall be accordance with DIN/IEC Standards.	Vendor to Confirm			
5.0	SAFETY ARRANGEMENTS:				
	Following safety features in addition to other standard safety features should be provided on the machine.				
5.1	Machine should have adequate and reliable safety interlocks/devices to avoid damage to the machine, work piece and the operator due to the malfunctioning or mistakes.	Vendor to Confirm			
5.2	In case of overloads due to wrong maneuvers /malfunctions the machine should stop to avoid damage to machine and man.	Vendor to Confirm			
5.3	Emergency switch at suitable locations as per International Norms should be provided.	Vendor to Confirm			

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6.0	SPARES:				
	Item wise breakup of (1) standard-mechanical, hydraulic, electrical and electronic accessories & spares (included in Basic machine cost), (2) Essential -spares/accessories required for the Purpose and (3) Optional in sufficient quantity as per recommendation of Vendor for 5 years (After initial 24 month's Guarantee period) of trouble free operation on three shifts continuous running basis should be offered by vendor. If machine or control is likely to become obsolete in this period, the vendor should inform BHEL sufficiently in advance and provide drawings of parts / details of spares & suppliers to enable BHEL to procure these in advance, if required. The list to include following, in addition to other recommended spares: (Unit Price of each item of spare should be offered in the price bid)	Vendor to agree			
6.2	Mechanical/ Electrical /Electronics spares List to be given	Vendor to note			
6.3	Recommended set of spares for all attachments are to be offered with details.	Vendor to confirm			
6.4	Vendor to confirm that complete list of spares for machine and accessories, along with specification / type / model, and name & address of the spare supplier shall be furnished along with documentation to be supplied with the machine.	Vendor to confirm			
7.0	DOCUMENTATION : Three sets of following documents (Hard copies) in English language . Should be supplied along with the machine. Only originals shall be Supplied. Photocopies will not be accepted.				
7.1	Operating manuals of Machine.				
7.2	Detailed Maintenance manual of machine with all drawings of machine assemblies/sub-assemblies/parts including Electrical / Pneumatic/ Hydraulic circuit diagrams. All Assembly/ Sub Assembly	Vendor to confirm			

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7.3	Manufacturing drawings for all supplied shear blades, back gauge, fixtures etc.	Vendor to furnish			
7.4	Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable.	Vendor to furnish			
7.5	Detailed specification of all rubber items and hydraulic/tube fittings.	Vendor to furnish			
7.6	Complete Master List of parts used in the machine shall be submitted by the vendor.	Vendor to furnish			
7.7	One additional set of all the above documentation on CD ROM.	Vendor to furnish			
8.0	TRAINING				
8.1	BHEL persons should be trained at BHEL's works for mutually agreed period in the area of: (a) Electrical, Electronic maintenance of machine & other supplied equipments. (b) Mechanical and Hydraulic maintenance of machine & other supplied equipments. (c) Operations of machine & other supplied equipments.	Vendor to confirm			
8.2	Competent experts shall be arranged by the vendor during training for satisfactory & effective training of BHEL personnel.	Vendor to confirm			
8.3	Vendor to quote for training on <i>per diem</i> basis, if required	Vendor to confirm			
9.0	ERECTION & COMMISSIONING				
9.1	Supplier to take full responsibility for carrying out the erection, start up, testing of machine, it's control & all types of other supplied equipment, machining of test pieces etc. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by supplier in their foundation/layout drawings. Other requirements like crane and helping personnel shall also be provided by BHEL. Details of these requirements should be informed by vendor in advance.	Vendor to confirm			
9.2	Successful working of full capacity of the machine by the supplier shall be considered as part of commissioning.				
9.3	Tools, Tackles, instruments and other necessary equipments required to carry out all above activities should be brought by the supplier.	Vendor to agree			
9.4	Commissioning spares, required for commissioning of the machine within stipulated time, shall be brought by the supplier on returnable basis.	Vendor to agree			

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9.5	Schedule of Erection and Commissioning shall be submitted with the offer.	Vendor to agree			
9.6	Charges, duration, terms & conditions for E&C should be furnished in detail separately by vendor along with offer.	Vendor to confirm			
9.7	Machine to be supplied with first filling of oil and grease. Equivalent Indian standards of all types of oils and grease used in the machine to be furnished by the vendor.	Vendor to agree			
10.0	TESTING STANDARD & PROCEDURE				
10.1	Repeatability of setting of the beveling angle	Vendor to specify the Standard.			
10.2	Repeatability of settings				
11.0	GUARANTEE :				
11.1	Guarantee for 24 months from the date of acceptance of the machine at BHEL works. During this Guarantee period at least 2 visits per year and/or whenever called by BHEL (within 24 hours of call) by the service engineer of the supplier to be made & the parts, items, spares Etc needing replacement to be replaced by the supplier free of cost. In support a Performance Bank Guarantee of 10% of Basic Value of P.O. valid for 24 months from the date of commissioning will have to be furnished by supplier.	Vendor to furnish			
12.0	GENERAL :				
12.1	Machine Model	Vendor to furnish			
12.2	Total connected load (KVA):	Vendor to furnish			
12.3	Total weight of the machine	Vendor to furnish			
12.4	Detailed catalogues, sketch/photographs of the machine and accessories/ attachments should be submitted with the offer.	Vendor to confirm			
13.0	DELIVERY TERM: Delivery term is to be on FOR-BHEL Rudrapur basis.	Vendor to confirm			
14.0	DELIVERY PERIOD: Within 06 months from the date of Purchase order.	Vendor to confirm			
15.0	PAYMENT TERM: BHEL standard payment term is "90% after receipt, subject to acceptance at our end within 45 days". Remaining 10% will be given after erection and successful commissioning within 45 days of submission of invoice. Any deviation to our payment term will be loaded @ (SBI prime lending rate on the date of Techno-commercial bid opening + 6)% annual interest for comparison.	Vendor to confirm			

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16.0	LD CLUASE: In case of delayed delivery, penalty at 0.5% per week, maximum up to 10% will be deducted.	Vendor to confirm			
17.0	VALIDITY: Offer validity to be for 90 days from the date of Techno-commercial bid opening.	Vendor to confirm			
18.0	RISK PURCHASE CLAUSE: If the Seller fails to deliver the goods within the stipulated delivery time mentioned in Purchase order, BHEL shall be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole or any part of the goods, the best and the nearest available substitute therefore. The seller shall be liable for any loss i.e. any additional expenditure incurred, which the purchaser has to sustain by reason of such risk purchase	Vendor to confirm			

Supplier Name	
Name of Authorized Person:	
Designation:	
Address:	
Phone Nos/Fax Nos:	
Signature:	
Seal:	