



BHARAT HEAVY ELECTRICAL LIMITED

UNIT'S ADDRESS:

CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)

REV 01

Enquiry No. : _____

Due Date : _____

Supplier Qtn. No.: _____

Date : _____

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF ARTICULATED BOOM LIFT

NOTE:-

1. Vendor must submit complete information against clause no. 14 (Qualifying Condition). The offer meeting this clause would only be processed.
2. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor in COPY OF THIS SPECIFICATION ONLY and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.
3. The offer and all documents enclosed with offer should be in English language.

NAME & ADDRESS OF THE SUPPLIER :

TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS :

NAME & ADDRESS OF THE INDIAN AGENT :

TELEPHONE NOS.:

FAX NOS.:

E-MAIL ADDRESS :

SCOPE: SUPPLY, ERECTION & COMMISSIONING OF ARTICULATED BOOM LIFT COMPLYING WITH SPECIFICATIONS AS BELOW

Yony

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SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE & WORKPIECE MATERIAL				
1.1	Purpose:				
	Articulated boom lift is meant for working at certain height in different directions with specified load carrying capacity.	Vendor to confirm			
1.2	Usage : The Articulated boom lift is to be used for making test connections in and around transformer test area at desired height & assembly of power transformer/ reactor in shop-floor	Vendor to note			
	Quantity : 02 No.				
2.0	SPECIFICATION (Minimum Requirements) :				
2.1	Boom lift should be self-propelled.	Vendor to confirm			
2.2	Platform height : Should be 20 meters or above	Vendor to confirm			
2.3	Stowed height : 3 meters (max.)	Vendor to confirm			
2.4	Stowed length : 11.5 meters (max.)	Vendor to confirm			
2.5	Overall width : 2.75 meters (max.)	Vendor to confirm			
2.6	Turning Radius : 6.5 meter (max.)	Vendor to confirm			
2.7	Horizontal Reach : 15 meters (min.)	Vendor to confirm			
2.8	Boom : Articulating type boom design for versatility in lifting with up & over positioning & excellent overreach	Vendor to confirm			
2.9	Platform lifting capacity : The elevator platform should be able to carry a load of 225 kgs or above	Vendor to confirm			
2.10	Platform size : 0.9 x 1.75 meter(min.), as it should be suitable enough for two persons to stand and work.	Vendor to confirm			
2.11	Platform Rotation : The platform should be suitable for total angular movement of 90°(min.) in horizontal & 120°(min.) in vertical direction.	Vendor to confirm			
2.12	Gradeability : 30% (min.)	Vendor to confirm			
2.13	Mode : The equipment to work on Hybrid mode(Battery Operated (Primary)+ Diesel (Auxillary)). The battery-only mode should allow zero-emission operation. The machine should maintain power and performance while reducing fuel consumption for maximum efficiency.	Vendor to confirm			

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2.14	Power Supply : The equipment to work on DC (Battery powered).The battery charging system with indicator & connecting leads should also be supplied.Battery charger to be suitable for AC power supply of 230Volts± 10%, 50 Hz ± 3%,1-phase or 415Volts± 10%, 50 Hz ± 3%,3-phase supply. Battery should be suitable for continuous 8 hr. operation. A battery monitoring system to be provided to analyze the machine's battery charge and usage, while providing superior diagnostic information.	Vendor to confirm			
2.15	Auxillary Power Supply : The Equipment should have a suitable diesel engine,supported by the machine's electric motor when extra power is needed and should be able to recharge the batteries in working condition.The diesel engine should have minimum 25 HP capacity.	Vendor to confirm			
2.16	Support structure : The main framework/ structure to be sturdy enough for reliability, safety & durability.The lift should not come down momentarily or slowly once locked even at a maximum height and there should not be any notable vibrations or stability issues in the platform.	Vendor to confirm			
2.17	Controls : All the controls should be provided on platform as well as on ground control panel.	Vendor to confirm			
2.18	Safety & Protection : (a)The equipment should meet international safety standards. Also, proper alarm & LED indication should be provided for critical parameters like over-load condition on platform,platform extending beyond permissible height,tilting,platform levelling, low battery indication etc. & take suitable preventive action to ensure safety of men & machines.The tilt sensor should monitors the inclination of the machine chassis. When the platform is in use, (i.e. Booms are raised), if the inclination exceeds the pre-set limit, it will disable all drive functions, sound the alarm and display a warning symbol on the screen. (b) Emergency push-button stop to be provided on control panel (c) The equipment should have facility to bring down the platform in case of failure in power supply or any sort of breakdown.	Vendor to confirm			
2.19	Movement : The equipment should have well equipped swivel lock wheels with 360 degree rotation of base/turn table for easy movement from one place to another.	Vendor to confirm			
2.20	Wheels : For movement of boom-lift on surface/road,4 no. wheels should be there. Tyres should be non-marking & solid, preferably mineral oil resistant.Foam filled tyres are not required.	Vendor to confirm			
2.21	Drive : 4 wheel drive	Vendor to confirm			
2.22	Drive in Raised condition : Facility to drive in raised condition. Boom lift should be movable with platform extended to full height & max. load carrying capacity.	Vendor to confirm			
2.23	Appearance: The equipment should be asthetically good with proper painting (powdered coated) after surface preparation.	Vendor to confirm			
2.24	The platform should have properly finished railing on all sides for safety purpose.	Vendor to confirm			

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	Sourcing of system: In case the vendor is authorized representative of OEM, the complete system alongwith all accessories should be of OEM supply only.	Vendor to confirm			
	Lifting : Boom lift should have lifting lugs of sufficient load carrying capacity for lifting of boom lift by crane.	Vendor to confirm			
3.0	ACCESSORIES:				
3.1	All the necessary accessories along with the list.	Vendor to confirm & furnish			
4.0	SPARES: (Optional - to be quoted seperately)				
4.1	List of spares for the equipment and accessories, along with brief specification / type / model shall be supplied along with the equipment. Unit Price of each spare should be offered. The spares will be ordered as per requirement. Note: The price of the spares will not be considered for the evaluation of the machine cost (L1 criteria).	Vendor to confirm & furnish			
4.2	All types of spares for equipment and accessories should be available for at least ten years after supply of the equipment. If equipment or control is likely to become obsolete during this period, the vendor should inform BHEL well in advance and provide drawings of parts / details of spares & suppliers to enable BHEL to procure these items.	Vendor to confirm			
4.3	Recommended spares for 2 years trouble free operation of the machine and accessories are to be mentioned.	Vendor to confirm			
5.0	DOCUMENTATION :				
	The following shall be supplied alongwith the equipment -				
5.1	Instruction manual : 2 copies in hard form and 2 copies in soft form	Vendor to Confirm			
5.2	Maintenance manual along with circuit/block diagrams and schematics with troubleshooting instructions: 2 copies in hard form and 2 copies in soft form	Vendor to Confirm			
5.3	Test & Guarantee Certificate : One set	Vendor to Confirm			
6.0	SYSTEM INSPECTION:				
6.1	Inspection at suppliers works before dispatch.	Vendor to Confirm			
6.2	Demonstartion of all features of equipment as per cl. 2.0 of this specification shall be carried out at supplier's works in presence of BHEL representatives before dispatch.	Vendor to Confirm			

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6.3	Boarding, lodging & transportation upto supplier's works for inspection activities shall be in scope of BHEL.	Vendor to note			
7.0	INSTALLATION & COMMISSIONING				
7.1	Supplier to take full responsibility for carrying out entire installation and commissioning of equipment. Commissioning to be done in presence of technical expert from OEM.	Vendor to Confirm			
7.2	Successful demonstration & proving of operational features of supplied equipment by the supplier shall be considered as part of commissioning.	Vendor to Confirm			
7.3	Demonstration by actual use of supplied equipment and its accessories to their full capacity.	Vendor to confirm			
7.4	Commissioning tools, required for commissioning of the equipment within stipulated time, shall be brought by the supplier on returnable basis.	Vendor to confirm			
7.5	Schedule for delivery, installation and Commissioning shall be submitted along with the offer.	Vendor to furnish			
8.0	ACCEPTANCE CRITERIA:				
8.1	Successful working & demonstration of supplied equipment after its commissioning with regard to all features as mentioned at cl. 2.0 of this specification	Vendor to Confirm			
9.0	TRAINING:				
9.1	Training to BHEL testing engineer and maintenance person should be provided at BHEL, Bhopal in the area of (a) Use of all equipment features, supplied accessories etc. (b) Complete maintenance of supplied equipment & accessories	Vendor to specify & confirm			
10.0	AMBIENT CONDITIONS:				
10.1	Total System and all supplied items should work trouble free and efficiently under Operating Temperature : 5°C to 45°C	Vendor to confirm			
11.0	PACKING:				
11.1	Air worthy/Sea Worthy & rigid packing of supplied equipment & its accessories to avoid any damage/loss in transit. When equipment is despatched in containers, all small loose items shall be suitably packed in boxes.	Vendor to confirm			
12.0	GUARANTEE :				
12.1	24 months from the date of commissioning of the equipment	Vendor to confirm			

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13.0	GENERAL : The vendor should submit the following information along with offer:				
13.1	Equipment Model & Make	Vendor to specify			
13.2	Total weight of the equipment	Vendor to specify			
13.3	Vendor to submit, along with offer, the reference list of customers where similar equipment have been supplied mentioning the customer, Machine Model, major specifications of the supplied equipment, Year of Supply etc. Also, firm to submit capabilities w.r.t personnel, equipment and manufacturing facilities.	Vendor to submit			
13.4	Detailed catalogues, sketch/ photographs of the m/c and accessories/ attachments should be submitted with the offer.	Vendor to submit			
13.5	Country of manufacturing of equipment shall be same as of that supplied against Purchase Order submitted against cl.no. 14.3.1	Vendor to confirm			
14.0	QUALIFYING CONDITIONS :				
14.1	The supplier should either be an Original Equipment Manufacturer(OEM) or an authorised dealer of the OEM for the offered equipment. Dealers have to submit along with the offer, a valid Certificate of Authorisation from OEM for quoting the equipment, alongwith declaration for support from OEM for erection & commissioning, after sales service & necessary spares.	Vendor to specify & submit			
14.2	The OEM or its dealer must have supplied at least one equipment (meeting specification as per clause 2.1,2.3 to 2.14 & min platform height 16 m) in the past seven years (on the date of opening of Tender) and the equipment is working satisfactorily for more than one year after commissioning.	Vendor to confirm			
14.3	Following documents/information should be submitted by the vendor in reference to supplied equipment, this is required from all the vendors for qualification of their offer.	Vendor to submit			
14.3.1	One copy of Purchase Order in name of OEM or any Dealer/Vendor for equipment supplied in line with Clause 14.2.	Vendor to submit			
14.3.2	Complete postal address and contact details of customer where above equipment is installed/supplied.	Vendor to Specify			
14.3.3	The PO copy to clearly mention name of item, type, make and model no. including other details.Catalogue of the supplied equipment.	Vendor to submit			
14.3.4	Average annual T/O of the Bidder for the last three financial years should be at least Rs.100 Lakhs.Profit & Loss statements/ Balance sheet for the years ending 2018-19, 2019-20 & 2020-2021 to be provided. Note: For micro and small enterprises in line with GOI circular 1(2)(1)/2016-MA 10/03/2016 relaxation permitted for prior turnover criteria only however prior experience is mandatorily required and no relaxation in this regard shall be given.	Vendor to submit			

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14.3.5	Performance certificate from the customers regarding satisfactory performance of the equipment supplied to them vide the Purchase Order as per clause 14.2 & 14.3.1.	Vendor to submit			
14.3.6	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/incorrect, the offer shall be rejected.	Vendor to note			
15	POINTWISE CONFIRMATION:				
15.1	Vendor should confirm/clarify pointwise (all the points) as per specification and provide technical leaflet, technical details, photographs, scope of supply etc. at the first instance.	Vendor to confirm			