



**BHARAT HEAVY ELECTRICALS LIMITED**

**Heavy Power Equipment Plant, Ramachandrapuram,  
Hyderabad - 502 032. INDIA.**

Date : \_\_\_\_\_

Due Date : \_\_\_\_\_

Supplier Qtn. No.: \_\_\_\_\_

Date : \_\_\_\_\_

**TENDER DOCUMENTS TO BE FILLED BY THE SUPPLIER FOR SUPPLY OF HYDRAULIC HAND PALLET TRUCKS**

**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 offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

**ADDRESS OF THE SUPPLIER :**

**TELEPHONE NOS.:**

**FAX NOS.:**

**E-MAIL ADDRESS :**

SL.NO.		SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	<b>MAIN PARAMETERS</b>				
	<b>PURPOSE</b> These Hydraulic hand Pallet trucks are required for material handling between 70 stores and Pumps Shop, BHEL.				
2.0	<b>TECHNICAL PARAMETERS</b>				
2.1	Load carrying capacity	2500kg (Min)			
2.2	Hydraulic lift	Vendor to specify			
2.3	Lift (mm/stroke)	Vendor to specify			
2.4	Maximum fork height	185 mm (Min)			
2.5	Lowered fork height from the ground	90mm(Max)			

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2.6	Ground Clearance	30 mm (Min)			
2.7	Over all Height	1100 to 1200mm			
2.8	Fork Length	1130mm(Min)			
2.9	Width of forks	160mm(Min)			
2.10	Width over the forks	520mm(Min)			
2.11	Fork Gap	180mm (Min)			
2.12	Steering wheels shall have double Ball bearings, shall be Bogie mounted, pivoting type to ensure constant floor contact, stability and less wear & tear even for driving on uneven floors.	Vendor to confirm			
2.13	Size of steering wheels	Vendor to specify			
2.14	Size of Tandem Load wheels	Dia 70 mm (min)			
2.15	Steering Wheels & Tandem wheels material	Polyurethane			
2.16	Exterior colour	Vendor to specify			
2.17	All other / unspecified dimensions shall be as per ISO/IS -509 1996	Vendor to confirm			
<b>3.0</b>	<b>CONSTRUCTION:</b>				
<b>3.1</b>	Vendor to furnish details of material, hardness & constructional details of frame structure, including explanatory drawings, of various components / assemblies, Hydraulic system etc .of the equipment (Positive lifting with uniform loads). All the bought out items shall be of reputed make. Make & type of each of these shall be indicated and relevant catalogues shall be enclosed with the offer.	Vendor to submit the Catalogue of the offered Pallet truck & furnish all the constructional details.			
<b>3.2</b>	<b>Steering Handle :</b>				
3.2.1	It should be lowering / pulling to the convenient lever of large steering handle and effortlessly deposit the load. The handle design should have protection for the operators handle and makes raising loads and steering easier. On release the handle should return to its vertical position.	Vendor to Confirm			
3.2.2	A few strokes of the handle should provide the maximum of lift, the heavy duty pump should be built to take thousands of pick-up and deposit cycles. The pump 'top-of-stroke' hydraulic fluid bypass should minimize stress on the system when load is raised to maximum lift height.	Vendor to Confirm			

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<b>3.3</b>	<b>Hydraulic system :</b>				
3.3.1	The manually operated lift pump shall be simple and reliable in operation. The hard chrome polished piston shall be resistant to rust, scratches and strokes. The pump shall be double sealed which secures efficiently against leakages and prolongs the life of the packing.	Vendor to Confirm			
3.3.2	The lift cylinder shall be welded directly on to the pump, and the oil reservoir is welded around the lift cylinder. This imparts efficient tightness and eliminates tube and hose connections.	Vendor to Confirm			
3.3.3	The hand pallet truck shall be equipped with a neutral position valve as standard. When the drawbar is moved slowly, the neutral position shall ensure that the load is not lifted (Driving position). When the drawbar is moved a little faster, the load is to be lifted the usual way (lifting function).	Vendor to Confirm			
3.3.4	The system shall be simple, needs no adjustment and is reliable in operation.	Vendor to Confirm			
<b>3.4</b>	<b>The equipment should be :</b>				
	a) Easy to operate	Vendor to Confirm			
	b) Silent in operation	Vendor to Confirm			
	c) Requires minimum pulling power	Vendor to Confirm			
	d) No oil leakage	Vendor to Confirm			
	e) Minimum maintenance	Vendor to Confirm			
	f) Maximum maneuverability	Vendor to Confirm			
	g) Paint of the machine should be oil / coolant resistant and should not peel off and mix up with coolant.	Vendor to Confirm			
<b>4.0</b>	<b>Testing</b>				
4.1	The Pallet trucks shall be tested in accordance with applicable Standard.	Vendor to specify applicable (IS/ISO/Any other equivalent) Standard.			
4.2	Test reports of all the tests to be carried out on the Pallet trucks shall be furnished .	Vendor to furnish			

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<b>5.0</b>	<b>CHECKLIST :</b>				
	a) Visual	Vendor to Confirm			
	b) Dimensional				
	c) Fitment and alignment				
	d) Vibration test				
	e) No load / free running test				
	f) Load / Performance test				
	g) Manufacturing test certificate for Bought Out Items (BOIs)				
	h) Internal Inspection report				
	i) Any other relevant tests to Assure the performance of the equipment				
	j) Proof testing at BHEL HYDERABAD.				
<b>6.0</b>	<b>SAFETY ARRANGEMENTS:</b>				
6.1	The Equipment should have adequate and reliable safety interlocks / devices to avoid damage to the equipment and operator due to malfunctioning or mistakes.	Vendor to Confirm			
6.2	If any safety / environmental protection enclosure is required it should be built in the system by the vendor.	Vendor to Confirm			
<b>7.0</b>	<b>SPARES:</b>				
7.1	Itemized breakup of mechanical and hydraulic spares used on the equipment in sufficient quantity as per recommendation of Vendor for 2 years of trouble free maintenance / operation including at least 2 sets of all rubber items & seals, 1 set of steering wheels and 1set of tandem wheels should be offered by vendor. (Unit price of each item of spare should be offered)	Vendor to Confirm and submit the list of spares.			
<b>8.0</b>	<b>DOCUMENTATION :</b>				
8.1	Three sets of Detailed Maintenance manual including Hydraulic system of the equipment with all drawings of assemblies/sub-assemblies/parts shall be provided. Soft copy of operation Manual should also be provided.	Vendor to Confirm			

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9.0	<b>EQUIPMENT ACCEPTANCE: (Tests/Activities should be Performed by Vendor)</b>	Vendor to Confirm			
9.1	<b>Tests/Activities should be carried out at BHEL works while commissioning the equipment :</b>	As per Cl. No. 4 & 5			
9.1.1	Demonstration of all features of the equipment to the satisfaction of BHEL for efficient and effective use of the equipment.	Vendor to Confirm			
9.1.2	Full load test to demonstrate the maximum capacity of the pallet truck.	Vendor to Confirm			
10.0	<b>PACKING:</b>				
10.1	Rigid packing for all items of complete equipment, Accessories and other supplied items to avoid any damage/loss in transit.	Vendor to Confirm			
11.0	<b>GUARANTEE :</b>	As per BHEL terms & Conditions			
12.0	<b>General :</b>				
	Equipment / Pallet Truck Model No.	Vendor to Specify			
	Capacity / Load	Vendor to Specify			
	Truck weight	Vendor to Specify			
	Overall Length	Vendor to Specify			
	Overall Height	Vendor to Specify			
13.0	<b>REFERENCE LIST :</b>				
13.1	The vendor shall be inline of manufacture of similar equipments at least for the last 5 years. Vendor to submit, along with offer, list of customers where similar equipment have been supplied mentioning broad specification & Model No. etc.	Vendor to Confirm and submit reference list.			
14.0	<b>Delivery</b>	4 weeks			