

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

Specification No.	10570 (R6)
Item No.	MH-1/5/6332 MH-1/7/6333
Location	Bay-7(Insulation) Bay-09 (SPC)
Quantity	TWO NUMBERS

SCOPE :

SUPPLY & COMMISSIONING OF 3 T DIESEL OPERATED FORK LIFT TRUCK. COMPLYING AS PER SPECIFICATION BELOW

NOTE :

1. VENDOR must submit complete information against clause No. 8.0 (Qualifying condition). The offer meeting this clause would only be processed.
2. The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.
3. The offer and all documents enclosed with offer should be in English language only.

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 3 T FORK LIFT TRUCK

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	Specified/ To be confirmed by vendor	OFFERED	DEVIATION
1.0 PURPOSE				
1.1	3 MT Diesel operated fork lifter is required for transporting of material from outside / inside of the store / shop floor	Vendor to confirm		
2.0 WORK PIECE MATERIAL				
2.1 PRIME MOVER		Vendor to confirm		
2.1.1	Prime mover should be fuel efficient Diesel engine.	Vendor to confirm		
2.1.1	Forklifter is to be fitted with direct injection system, 3 or more cylinder, 4 stroke diesel engine.	Vendor to confirm		
2.1.2	lubrication pump(TYPE OF PUMP)	Vendor to specify		
2.1.3	Exhaust should be vertical	Vendor to confirm		
2.1.4	Engine should be complete with fly wheel, starter, battery , electric self starter.alternator	Vendor to confirm		
2.1.5	Engine should be neutral start	Vendor to confirm		
2.1.6	fuel tank capacity	Vendor to specify		
2.2 STEERING				
2.2.1	The forklift to be provided with hydraulic/power steering system	Vendor to confirm		
2.3 TRANSMISSION				
2.3.1	The fork lifter is provided two speed forward and two speed backward automatic torque flow transmission system (Auto torque converter)	Vendor to confirm		
2.4 MAST				
2.4.1	Forklift should be fitted with hydraulically operated telescopic wide view mast for smooth lift, lowering, tilt and other auxiliary functions.	Vendor to confirm		
2.4.2	A relief valve to be provided in the hydraulic circuit for protection against excessivepressure due to excessive loading.	Vendor to confirm		
2.5 BRAKES				
2.5.1	The fork lifter should be fitted with hydraulic /mech. type foot operated service brakes.	Vendor to specify		
2.5.2	Hand operated parking brakes to be provided	Vendor to confirm		
2.6 ELECTRICALS				
2.6.1	The battery should be suitable rating for starting of engine. Battery should be oxide make only. Battery Voltage and rating should be submitted with offer	Vendor to specify		
2.6.2	Self starter to be provided	Vendor to confirm		
2.6.3	An alternator should be provided for charging the battery.	Vendor to confirm		
2.6.4	Forklifter should be fitted with head & tail lights.	Vendor to confirm		

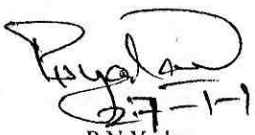
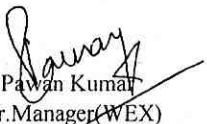
Page 1 of 3

 22-1-18

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S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	Specified/ To be confirmed by vendor	OFFERED	DEVIATION
2.6.5	Electric horn to be fitted with the fork lifter.	Vendor to confirm		
2.6.6	Forklifter should be fitted with a warning horn. This warning horn should be operated at the time of backward operation of the forklifter. (Reversing alarm)	Vendor to confirm		
2.7	Desh Board			
2.7.1	Desh board should be mounted in the front at a convenient place for clear view with different type of gauges like- temp., battery level, fuel level etc.	Vendor to specify the list & confirm		
2.8	DRIVER /OPERATOR SEAT			
2.8.1	The operator's seat should be ergonomically designed for best comforts , fully tested and sturdy overhead guard with provision for clear view upwards when stacking.	Vendor to confirm & specify		
2.9	TYRES			
2.9.1	The front and rear wheels to be fitted with Heavy duty non- skid cushion rubber type.	Vendor to confirm		
2.9.2	No of tyres in Front : 2 No (min.) Back : 2 No (min.)	Vendor to confirm		
2.10	CONSTRUCTION			
2.10.1	The frame of forklifter should be rugged in construction and designed for maximum strength for assigned duty.	Vendor to confirm		
2.10.2	The fork attachment should be of welded steel construction with quick adjustment facility.	Vendor to confirm		
2.10.3	The fork attachment should be supplied complete with load back rest.	Vendor to confirm		
2.11	List of standard accessories to be submitted with lifter	Vendor to specify		
3.0	SPECIFICATION:			
3.1	Capacity when used with 500 mm load center : 3000 KG(min)	Vendor to confirm		
3.2	Capacity when used with 900 mm load center : 1500 KG (min)	Vendor to confirm		
3.3	Power type : Diesel Engine	Vendor to confirm		
3.4	Engine make - Simpsons/Parkins/Kirloskar/Tata/Ashok layland	Vendor to specify		
3.5	BHP of engine	Vendor to specify		
3.6	Overall height with mast heighest : 5000 mm (max.)	Vendor to specify		
3.7	Minimum telescopic fork height : 3600 mm(min)	Vendor to confirm		
3.8	Max. FORK HEIGHT(LIFT HEIGHT) 3500MM MIN	Vendor to specify		
3.9	Clearance under mast :	Vendor to specify		
3.10	Ground clearance under wheel base	Vendor to specify		
3.11	Length of forks : 1000 mm(Min) +/- 100mm	Vendor to specify		
3.12	No. of forks : Two	Vendor to confirm		
3.13	Width of forks : 100 mm(Min)+/-10 mm	Vendor to specify		
3.14	Center distance of fork adjustable between Min. 250mm or less Max.850mm or more,	Vendor to specify		
3.15	Wheel base : 1500mm or more	Vendor to specify		
3.16	max. outside turning radius 3000 mm	Vendor to specify		
3.17	Tilt - Forward - 4 degree (min) - Backward - 10 degree(min)	Vendor to specify		
3.18	speed of truck in Forward / reverse at full load : 15 KM /Hr(min)	Vendor to specify		
3.19	Max Lifting/Lowering speed at full load :	Vendor to specify		
3.20	max gradientgradability at full load	Vendor to specify		
4.0	INSPECTION / TESTING			

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4.1	The equipment shall be tested/ inspected by BHEL engineer at suppliers works as per test chart in accordance to IS for all accessories & performance before dispatch.	Vendor to confirm		
5.0	MISCELLANEOUS			
5.1	The forklift to be supplied complete with tool kit, canopy and all other standard accessories needed for successful operation.	Vendor to confirm		
5.2	The offer should be complete with dimensional details outline general arrangement drawing with complete details of engine, power transmission, hydraulic system with circuit diagram and write up explaining special features.	Vendor to confirm		
5.3	Recommended spares for 2 years normal working to be quoted with item wise prices.	Vendor to confirm		
5.4	Four copies of test, operation , maintenance manual & spare part list to be supplied with the forklifter.	Vendor to confirm		
5.5	Not withstanding anything, the details in this specification, if any thing else is required for its functioning, the same shall be specifically brought out & indicated.	Vendor to confirm		
5.6	The equipment should be commissioned by the supplier at BHEL, Jhansi	Vendor to confirm		
6.0	GUARANTEE			
6.1	The equipment is to be guaranteed in respect of material, construction and operation and against any manufacturing defect for a period of 24 months from the date of commissioning. Any parts of units found defective have to be replaced free of cost.	Vendor to confirm		
7.0	ENVIRONMENTAL PERFORMANCE OF THE LIFTER :			
7.1	Air and noise pollution as per section 4 (i) of the noise and air pollution(regulation and control) rules 2000 as amended time to time(latest amendment Jan. 2010)	Vendor to confirm		
8.0	QUALIFYING CONDITION			
8.1	Only those vendor who have supplied and commissionend at least 05 Nos. Diesel fork lifter of 03 ton or more capacity in the past ten year (from the date of opening of tender) should quote. The following information is to be submitted by the Vendor about the companies where similar forklifters have been supplied. This is required from all the vendors for qualification of their offer.	Vendor to confirm		
8.2	Name of the customer / company where similar forklifter is installed. (copy of purchase order to be furnished)	Vendor to confirm		
8.3	Complete postal address of the customer.	Vendor to confirm		
8.4	Year of suppling / commissioning.	Vendor to confirm		
8.5	Performance certificate / Commissioning Certificate from the customer	Vendor to confirm		
9.0	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 confirm		
 Pradeep Kumar Sr. Engineer (TRM)  Y.K. Dhingra Dy. Mgr.(WEX)  P.N. Yadav Mgr.(TRM)  Pawan Kumar Sr. Manager(WEX)				