

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

Specification No.	MH-10583
Item No.	MH1/1/6336
Location	FABRICATION
Quantity	ONE No.

SCOPE :

DESIGN, SUPPLY & COMMISSIONING OF 03 TON DIESEL OPERATED FORK LIFTER. COMPLYING AS PER SPECIFICATION BELOW

NOTE :

1. VENDOR must submit complete information against clause No. 7.0 (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 / requirement's shall be treated as non - compliance.
3. The offer and all documents enclosed with offer should be in English language only.

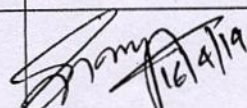
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 03 Ton FORK LIFT TRUCK

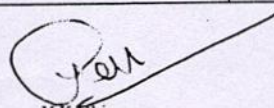
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION
1.0	PURPOSE			
1.1	03 MT Diesel operated fork lift truck is required for shifting of material	VENDER TO CONFIRM		
1.2	Make of fork lifter	VENDER TO SPECIFY		
1.3	Model of fork lifter	VENDER TO SPECIFY		
2.0	WORK PIECE MATERIAL SPECIFICATION			
2.1	PRIME MOVER	VENDER TO CONFIRM		
2.2	Prime mover should be fuel efficient 4 stroke Diesel engine.	VENDER TO CONFIRM		
2.3	BHP of engine:47 bhp@2000-2800RPM(Min.)	VENDER TO CONFIRM & SPECIFY		
2.4	Power type : Diesel Engine	VENDER TO CONFIRM		
2.5	Engine make - Simpsons/Parkins/Kirloskar/Tata/Ashok layland only In case manufacturer/vendor intends to supply their own make or any Specific make of engine(other than above), then performance Guarantee of atleast 5 years shall be provided for those items.	VENDER TO CONFIRM & SPECIFY		
2.6	Wheel base : 1600 mm(Min.)	VENDER TO CONFIRM & SPECIFY		
2.7	Max. outside turning radius :2500 mm(max.)	VENDER TO CONFIRM & SPECIFY		
2.8	Exhaust should be vertical	VENDER TO CONFIRM		
2.9	Fuel Tank capacity :60 Lit(Min.)	VENDER TO CONFIRM & SPECIFY		
2.10	Capacity when used with 500 mm load center : 3000 KG(Min.)	VENDER TO CONFIRM		
2.11	Length of forks : 1000 mm(Min) +/- 100mm	VENDER TO CONFIRM & SPECIFY		
2.12	No. of forks : Two	VENDER TO CONFIRM		
2.13	Width of forks : 100 mm(Min.) +/- 10mm	VENDER TO CONFIRM & SPECIFY		
2.14	Center distance of fork adjustable between Min.:200MM +/- 50mm Max.:900MM +/- 50mm	VENDER TO CONFIRM & SPECIFY		
2.15	Tilt - Forward - - Backward -	VENDER TO SPECIFY		
2.16	Speed of truck in Forward / reverse at full load : 17 KM /Hr(Min.)	VENDER TO CONFIRM & SPECIFY		
2.17	Max. speed at full load : Lifting: Lowering:	VENDER TO SPECIFY		
2.18	Max gradient gradibility at full load	VENDER TO SPECIFY		
2.19	Maximum mast height with Max. fork raised : 5000 mm (Max.)	VENDER TO CONFIRM & SPECIFY		
2.20	Maximum mast height with fork lowered condition : 3600 mm(Max.)	VENDER TO CONFIRM & SPECIFY		
2.21	Minimum fork lift (lifting height/clear lift):3500 mm(Min)	VENDER TO CONFIRM & SPECIFY		
2.22	STEERING: The forklift to be provided with hydraulic/power / Hydrostatic steering system	VENDER TO CONFIRM & SPECIFY		
2.23	POWER TRANSMISSION: (A) Power transmission -Automatic (B) Gear shifting -Manual/Automatic	VENDER TO CONFIRM & SPECIFY VENDER TO CONFIRM & SPECIFY		
2.24	GAUGES: Dash board should be mounted in the front at a convenient place for clear view with different type of gauges, meters & switches etc.	VENDER TO SUBMIT THE LIST		
2.25	DRIVER /OPERATOR SEAT: 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.	VENDER TO CONFIRM		
2.26	MAST			
2.26.1	Forklift should be fitted with hydraulically operated telescopic wide view mast for smooth lift, lowering, tilt and other auxiliary functions.	VENDER TO CONFIRM		
2.26.2	A relief valve to be provided in the hydraulic circuit for protection against excessive pressure due to excessive loading.	VENDER TO CONFIRM		
2.27	BRAKES			

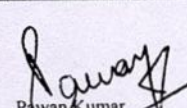
4

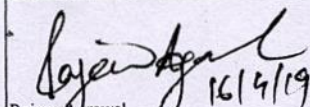
ECIFICATION CUM COMPLIANCE CERTIFICATE OF 03 Ton FORK LIFT TRUCK

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION
2.27.1	The fork lifter should be fitted with hydraulic type foot operated service brakes.	VENDER TO CONFIRM		
2.27.2	Hand operated parking brakes to be provided	VENDER TO CONFIRM		
2.3	TYRES			
2.28.1	The front and rear wheels to be fitted with Heavy duty non- skid cushion rubber type tyres. Front & Rear tyre size to be specified.	VENDER TO CONFIRM		
2.28.2	No of tyres in front /back : 2/2 No (min)	VENDER TO CONFIRM		
2.3	CONSTRUCTION			
2.29.1	The frame of forklifter should be rugged in construction and designed for maximum strength for assigned duty.	VENDER TO CONFIRM		
2.29.2	The fork attachment should be of welded steel construction with quick adjustment facility.	VENDER TO CONFIRM		
2.29.3	The fork attachment should be supplied complete with load back rest.	VENDER TO CONFIRM		
2.29.4	List of standard accessories & tool kit to be supplied with lifter (with out extra cost)	VENDER TO SUBMIT		
3.0	ELECTRICALS			
3.1	Suitable battery for starting of engine. Battery should be Exide /Amaron/ Syska/Luminous//Hawk/Panasonic/Microtek make only. Battery Voltage and rating must be specified in offer.	VENDER TO CONFIRM & SPECIFY		
3.2	Self starter to be provided & nutral start protection shall be provided.	VENDER TO CONFIRM		
3.3	An alternator should be provided for charging the battery.	VENDER TO CONFIRM		
3.4	Forklifter should be fitted with head & tail lights.	VENDER TO CONFIRM		
3.5	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)	VENDER TO CONFIRM		
4.0	INSPECTION / TESTING			
4.1	The equipment shall be tested/ inspected by BHEL engineer at suppliers works in line with specification for all accessories & performance shall be check before dispatch.	VENDER TO CONFIRM		
5.0	MISCELLANEOUS/DOCUMENTATION			
5.1	The forklift to be supplied complete with tool.kit, canopy and all other standard accessories needed for successful operation.	VENDER TO CONFIRM		
5.2	The offer should be complete with dimensional details and tech. litrature of offered model.	VENDER TO CONFIRM		
5.3	Three copies of test, operation , maintenance manual & spare part list to be supplied with the forklifter.	VENDER TO CONFIRM		
5.4	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.	VENDER TO CONFIRM		
5.5	The equipment should be commissioned by the supplier at BHEL, Jhansi (man power required for the E & C will be in the scope of vender)	VENDER 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.	VENDER TO CONFIRM		
7.0	QUALIFYING CONDITION			
7.1	Only those vendor who have supplied and commissionend at least 03 Nos. Diesel fork lifter of 03 ton or more capacity in the past five years (from the date of opening of tender) should quote. The following supporting documents are required to meet the qualifying as above.	VENDER TO CONFIRM		
7.2	Purchase order copy as per above to be furnished.	VENDER TO SUBMIT		
7.3	Performance certificate/ Commissioning Certificate /Service report of above fork lifters issued /certified by customer .	VENDER TO SUBMIT		
8.0	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.	VENDER TO CONFIRM		


Sandeep Maurya
Dy. Mgr.-(FBM)


Y.K. Dhangra
Dy. Mgr. (WEX)


Pawan Kumar
Sr. Mgr. (WEX)


Rajeev Agrawal
A.G.M (WEX)