	BHARAT HEAVY ELECTRICAL LIMITED,		1	
		Specification No.	10574 (R1)	
		Item No.	MH-1/40/6302	2
		Location	BAY-6	
		Quantity	ONE NUMBER	
COPE	:			
	SUPPLY & COMMISSIONING OF 5 T DIESEL OPERATED FORK LIFT TRUCK. COM	MPLYING AS PER SPEC	CIFICATION	BELOW
OTE :				
	1. VENDOR must submit complete information against clause No. 6.0 (Qualifying condition). The	e offer meeting this clause	would only be	processed.
	2. The "offered" Column and where applicable, the "Deviations" Column of this format shall be offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsupplication / requirements shall be treated as non - compliance.			
	2. The offer and all documents enclosed with offer should be in English language only.			
	SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 5 T FO	ORK LIFT TRUCK		
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION
1.0	PURPOSE			
	A Single drive forklift truck with simplex clear view mast 5 MT capacity at 600 mm load center	VENDER TO CONFIRM		
	operated through diesel is required for transporting of material from outside / inside of the store			
_	WORK PIECE MATERIAL	VENDER TO COMME		
	PRIME MOVER	VENDER TO CONFIRM		
	Prime mover should be fuel efficient Diesel engine.	VENDER TO CONFIRM		
2.1.2	4 Cylinder direct injection type engine shall be used.	VENDER TO CONFIRM		
2.1.3	Air filteration shall be done through a large, cyclone type air cleaner with replaceable paper element.			
2.1.4	Air cleaner shall be located close to the air intake manifold.			
2.1.5	Gear type oil pump to be provided for lubrication	VENDER TO CONFIRM		
2.1.6	Water pump and radiator to be provided for cooling.	VENDER TO CONFIRM		
2.1.7	Internal Lub oil cooler to be provided for maintaining oil viscosity, oil temperature of the engine.	VENDER TO CONFIRM		
2.1.8	Exhaust should be vertical	VENDER TO CONFIRM		
2.1.9	The exposed portion of the muffler and steel pipe shall be adequotely graduated, and shall be used steel wire mesh enclosure.			
2.1.10	Engine should be complete with fly wheel, starter, battery , electric self starter, alternator	VENDER TO CONFIRM		
	Engine should be neutral start	VENDER TO CONFIRM		
	Details of fuel tank to be submitted	VENDER TO SPECIFY		
	STEERING	VENDED TO CONFIDM		
	The forklift is provided with feather touch hydraulic steering system	VENDER TO CONFIRM		
	TRANSMISSION	VENDED TO CONFIDM		
	The fork lifter is provided two speed forward and backward automatic torque flow transmission system (Auto torque converter)	VENDER TO CONFIRM		
	MAST	VENDED TO CONSIST.		
2.4.1	Forklift should be fitted with hydraulically operated telescopic wide view mast for smooth lift, lowering, tilt and other auxiliary functions.	VENDER TO CONFIRM		
	A reief valve to be provided in the hydraulic circuit for protection against excessive pressure due to excessive loading.	VENDER TO CONFIRM		
2.5	BRAKES			
2.5.1	The Forklifter should be fitted with heavy duty, self adjustable and self- energizing hydraulically type foor operated services brakes.	VENDER TO CONFIRM		
2.5.2	Oil seals & sleaves shall be provided so as to prevent entry of grease in the brake area.			
	Hand operated parking brakes to be provided	VENDER TO CONFIRM		
	ELECTRICALS			
	The battery should be suitable rating for starting of engine. Battery should be exide make.	VENDER TO SPECIFY		
5.1	Battery Voltage and rating should be submitted with offer	12.122.110 01 2011 1		

0 110	SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 5 T FORK LIFT TRUCK					
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION		
	An alternator should be provided for charging the battery.	VENDER TO CONFIRM				
	Forklifter should be fitted with head & tail lights.	VENDER TO CONFIRM				
	Electric horn to be fitted with the fork lifter.	VENDER TO CONFIRM				
	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				
2.7	GAUGES					
	Desh board should be mounted in the front at a convenient place for clear view and fitted with water temp. gauge, engine oil pressure gauge, Battery charging indicator, fuel gauge, parking brake On indicator, Direction indicator, control switches etc.	VENDER TO CONFIRM				
2.8	DRIVER /OPERATOR CABIN					
	The operator's cabin should be ergonomically designed for best comferts, fully tested and sturdy overhead guard with provision for clear view upwards when stacking.	VENDER TO CONFIRM				
2.8.2	Comfertable , adjustable cusion seat with back rest to be provided.	VENDER TO CONFIRM				
2.8.3	Seat is to be fitted with safety brake switch, which will apply automatically on vacation .	VENDER TO CONFIRM				
	Ample leg space to be provided in the cabin	VENDER TO CONFIRM				
2.8.5	An overhead guard to be provided	VENDER TO CONFIRM				
2.9	TYRES					
	The frount and rear wheels to be fitted with standard non- skid cusion rubber type.	VENDER TO CONFIRM				
2.10.1	CONSTRUCTION The frame of forklifter should be mugged in construction and designed for maximum strength for assigned duty.	VENDER TO CONFIRM				
2.10.2	The fork attachement should be of welded steel construction with quick adjustment facilty.	VENDER TO CONFIRM				
2.10.3	The fork attachement should be supplied complete with load back rest.	VENDER TO CONFIRM				
	The fork lift truck is to be supplied complete with tool kit, canopy and all other accessories needed for successful operation/ commissionning.	VENDER TO CONFIRM				
2.11	List of standard accessories to be submitted with offer	VENDER TO SPECIFY				
2.12	List of optional Accessories with item wise prices to be sbmitted.	VENDER TO SPECIFY				
3.0	SPECIFICATION:					
3.1	Capacity when used with for attachment at 600 mm load center: 5000 KG	VENDER TO CONFIRM				
3.2	Power type : Diesel Engine	VENDER TO CONFIRM				
3.3	Engine make - Simpsons/Parkins/Kirloskar	VENDER TO SPECIFY				
3.4	BHP of engine	VENDER TO SPECIFY				
3.5	4 Cylinder engine	VENDER TO CONFIRM				
	Gear type oil pump for lubrication	VENDER TO CONFIRM				
	Radiator for cooling	VENDER TO CONFIRM				
	Non- skid cusion rubber type tyres	VENDER TO CONFIRM				
	No. of tyres (4 Nos. front / 2 Nos. rear)	VENDER TO CONFIRM VENDER TO CONFIRM				
	Hyd. System for lowering/hoisting/tilting	VENDER TO CONFIRM				
	Power steering	VENDER TO CONFIRM				
	Transmission : Auto torque converter	VENDER TO CONFIRM & SPECIFY				
3.13	Over head guard	VENDER TO CONFIRM				
3.14	Overall height with mast lowered : 2700 mm	VENDER TO SPECIFY				
3.15	Maximum telescopic fork height : 3660 mm	VENDER TO SPECIFY				
3.16	Ground clearance - at lowest point - 180 mm and at centre of the wheel base - 240 mm	VENDER TO SPECIFY				
3.17	Length of forks : 1200 mm	VENDER TO SPECIFY				
3.18	No. of forks : Two	VENDER TO SPECIFY				
,		VENDER TO SPECIFY				
3.19	Width of forks : 150 mm	VENDER TO SI ESIL				

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5.NO.	DESCRIPTION FOR BHEL REQUIREMENT		SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION
3.21	Wheel base	: 2000 mm	VENDER TO SPECIFY		
3.22	Width of truck	: 1800 mm	VENDER TO SPECIFY		
3.23	Overall length of truck	: 3200 mm	VENDER TO SPECIFY		
3.24	Minimum outside turning radius	: 3000 mm	VENDER TO SPECIFY		
3.25	Tilt - Forward - 6 degree & E	Backward - 12 degree	VENDER TO SPECIFY		
3.26	Maximum speed of truck in Forward / reverse at	full load : 18 KM /Hr	VENDER TO SPECIFY		
3.27	Lifting speed at full load : 24 Meter / Min.		VENDER TO SPECIFY		
3.28	Lowering speed at full load : 24 Meter/ Min.		VENDER TO SPECIFY		
3.29	Maximum gradient at full load : 18 %		VENDER TO SPECIFY		
3.30	Maximum gradient at NO load : 21%		VENDER TO SPECIFY		
4.0	INSPECTION / TESTING				
4.1	The equipment shall be tested/ inspected by BH chart in accordance to IS for all accessories & po		VENDER TO CONFIRM		
5.0	MISCELANIOUS				
5.1	The forklift to be supplied complete with tool kit, needed for successful operation.	canopy and all other standard accessories	VENDER TO CONFIRM		
5.2	The offer should be complete with dimensional of with complete details of engine, power transmiss write up explaining special features.		VENDER TO CONFIRM		
5.3	Recommended spares for 2 years normal working	ng to be quoted with item wise prices.	VENDER TO CONFIRM		
5.4	Optional equipment to be quoted for environmer	ntal protection.	VENDER TO CONFIRM		
5.5	Four copies of test, operation , maintenance ma forklifter.	nual & spare part list to be supplied with the	VENDER TO CONFIRM		
5.6	Not withstanding anything, the details in this spe functioning, the same shall be specifically broug		VENDER TO CONFIRM		
	QUALIFYING CONDITION				
6.1	Only those vendor who have supplied & commissioned at least 2 Nos. 5T or higher capacity diesel fork lifter of similar specification in the past ten year and such forklifters presently working satifactorily for more then one year after commmssioning, 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.		VENDER TO CONFIRM		
	1 . Name of the customer / company where similar forklifter is installed. (copy of purchase order to be furnised)		VENDER TO CONFIRM		
	2 . Complete postal address of the customer.		VENDER TO CONFIRM		
	3. Year of suppling / commissioning.		VENDER TO CONFIRM		
	4 . Application for which forklifter is supplied.		VENDER TO CONFIRM		
	5 . Name and designation of the contact person of the customer.		VENDER TO CONFIRM		
	6 . Phone. FAX, no andE-mail address of the contact person of fhe customer.		VENDER TO CONFIRM		
	7 . Performance certificate from the customer regarding satisfactory performance of forklifter.		VENDER TO CONFIRM		
7.0	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		
	INDER MATHUR	H.V.BHATIA	S.J.CHAKRABORTY	O.P.SR	IVASTAVA
	Sr. Manager (WE&S)	Sr. Manager (TRM)	Sr. DGM (WE&S)	AGM (TRM NPT)