	ARAT HEAVY ELECTRICAL LIMITED, JHANSI	Specification No.	140570 (0.0			
		Item No.	10570 (R4)	0.0.000		
		Location	MH-1/40/629 FABRICATIO	9 & 6300		
SCC	PE:	Quantity	TWO NUMBI	RS		
	PLY & COMMISSIONING OF 3 T DIESEL OPERATED FORK LIFT TRUCK.	COMPLYING AS DED SDE	CIEICATION DE			
NOT			SIFICATION BE	LOW		
	VENDOR must submit complete information against clause No. 8.0 (Qualifying condition). The offer meeting this clause would be processed.					
	2. The "offered" Column and where applicable, the "Deviations" Column o along with the offer. Technical details also submitted with the offer. Inadequagainst any of the clauses of the specification / requirements shall be treated.	of this format shall be filled in late / incomplete, ambiguous, ed as non - compliance.	by the Vender a or unsustainabl	nd submit e informa		
	2. The offer and all documents enclosed with offer should be in English land					
PEC	CIFICATION CUM COMPLIANCE CERTIFICATE OF 3 T FORK LIFT TRUE	guage only.				
. NIO	Incomparison	<u>CK</u>				
1.	DESCRIPTION FOR BHEL REQUIREMENT PURPOSE	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIA		
	MT Diesel operated fork lift truck is required for transporting of material from outside / inside of the store / shop floor	VENDER TO CONFIRM				
2.	WORK PIECE MATERIAL					
2.	PRIME MOVER	VENDER TO CONFIDE	-			
1.1	Prime mover should be fuel efficient Diesel engine.	VENDER TO CONFIRM VENDER TO CONFIRM	-			
	Forklifter is to be fitted with direct injection system, 3/4 cylinder, 4 stroke diesel engine.	VENDER TO CONFIRM		-		
1.2	Gear type oil pump to be provided for lubrication	VENDER TO CONFIRM				
1.3	Water pump and radiator to be provided for cooling.	VENDER TO CONFIRM	-			
1.4	Arrangement for cooling of Lub oil to be provided for maintaining oil viscosit temperature of the engine.	y, VENDER TO CONFIRM				
1.5	Exhaust should be vertical	VENDER				
1.6	Engine should be complete with fly wheel, starter, battery, electric self starter, alternator	VENDER TO CONFIRM VENDER TO CONFIRM				
.7	Engine should be neutral start	VENDER TO CONFIRM				
.8	Details of fuel tank to be submitted	VENDER TO SPECIFY				
	STEERING					
\rightarrow	The forklift is provided with feather touch hydraulic steering system	VENDER TO CONFIRM				
	TRANSMISSION					
_	The fork lifter is provided two speed forward and backward automatic torque flow transmission system (Auto torque converter)	VENDER TO CONFIRM				
	WAST					
_	orklift should be fitted with hydraulically operated telescopic wide view mast or smooth lift, lowering, tilt and other auxiliary functions.	VENDER TO CONFIRM				
2 <i>A</i>	A relief valve to be provided in the hydraulic circuit for protection against excessivepressure due to excessive loading.	VENDER TO CONFIRM				
.5 E	RAKES					
1	he fork lifter should be fitted with heavy duty ,self adjustable and self nergizing hydraulically type foot operated service brakes.	VENDER TO CONFIRM				
H	and operated parking brakes to be provided	VENDER TO CONFIRM				
.6 E	LECTRICALS ne battery should be suitable rating for starting of engine. Battery should be					
TI						

2.6.2	Self starter to be provided	VENDER TO CONFIRM
2.6.2	An alternator should be provided for charging the battery.	
		VENDER TO CONFIRM
2.6.4	Forklifter should be fitted with head & tail lights. Electric horn to be fitted with the fork lifter.	VENDER TO CONFIRM
2.6.6	Forklifter should be fitted with a warning horn. This warning horn should be	VENDER TO CONFIRM VENDER TO CONFIRM
	operated at the time of backward operation of the forklifter. (Reversing alarm)	VENDER TO COM IKW
2.7	GAUGES	
2.7.1	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 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.	VENDER TO CONFIRM
2.8.2	Comfirtable, adjustable cusion seat with back rest to be provided.	VENDER TO CONFIRM
2.8.3	Ample leg space to be provided in the cabin	VENDER TO CONFIRM
2.8.4	An overhead guard to be provided	VENDER TO CONFIRM
	TYRES	
2.9.1	The frount and rear wheels to be fitted with Heavy duty non- skid cusion rubber type.	VENDER TO CONFIRM
	No of tyres in front /back : 2/2 No	VENDER TO CONFIRM
	CONSTRUCTION	
	The frame of forklifter should be rugged 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
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 500 mm load center: 3000 KG	VENDER TO CONFIRM
3.2	Capacity when used with for attachment at 900 mm load center: 1500 KG	VENDER TO CONFIRM
3.3	Power type : Diesel Engine	VENDER TO CONFIRM
3.4	Engine make - Simpsons/Parkins/Kirloskar/Tata	VENDER TO SPECIFY
3.5	BHP of engine	VENDER TO SPECIFY
3.6	3/4 cylinder,4 Stroke Engine	VENDOR TO CONFIRM
3.7	Gear type oil hydraulic pump for lubrication	VENDER TO CONFIRM
3.8	Radiator for cooling	VENDER TO CONFIRM
3.9	Non- skid heavy duty cusion rubber type tyre	VENDER TO CONFIRM
3.10	Hyd. System for lowering/hoisting/tilting	VENDER TO CONFIRM
3.11	Power steering	VENDER TO CONFIRM
3.12	Transmission 2 speed Auto torque converter	VENDER TO CONFIRM
3.13	Over head guard	VENDER TO CONFIRM
3.14	Overall height with mast lowered : 2800 mm	VENDER TO CONFIRM
3.15	Minimum telescopic fork height : 3600 mm(min)	VENDER TO CONFIRM





3.	16 Minimum overall height raised	VENDER TO SPECIFY		
3.1	Clearance under mast : 105 mm(±10%)			
3.1	18 Ground elegeness and	VENDER TO CONFIRM		
	10 (and the start	VENDER TO CONFIRM		
	. 1000 mm(Min)	VENDER TO SPECIFY		
	No. of forks : Two	VENDER TO CONFIRM		
	1 Width of forks : 100 mm(Min)	VENDER TO SPECIFY	+	_
	2 Center distance of fork adjustable between : 300-950 mm	VENDER TO CONFIRM	 .	
	3 Wheel base : 1600mm(±5%)(min)	VENDER TO CONFIRM		
	Minimum outside turning radius : 2500 mm	VENDER TO CONFIRM		
	Forward - 5 degree & Backward - 10 degree	VENDER TO CONFIRM	 	
	Maximum speed of truck in Forward / reverse at full load : 18 KM /Hr	VENDER TO CONFIRM	 	
	Max Lifting Lowering speed at full load : 450 mm+/- 100mm per sec. (adjustable with lever)	VENDER TO CONFIRM		
	Minimum gradient at full load/No Load : 20%	VENDER TO CONFIRM		_
	INSPECTION / TESTING			_
	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. MISCELLANEOUS	VENDER TO CONFIRM		
5.1	The forklift to be supplied complete with tool kit concerved all all	VENDED TO CONTINUE		
	standard accessories needed for successful operation.	VENDER TO CONFIRM		
	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	VENDER TO CONFIRM		
	Recommended spares for 2 years normal working to be quoted with item wise prices.	VENDER TO CONFIRM		
	Optional equipment to be quoted for environmental protection.	VENDER TO CONFIRM		
_ [Four copies of test, operation, maintenance manual & spare part list to be supplied with the forklifter.	VENDER TO CONFIRM		+
	Not withstanding anything, the details in this specification, if any thing else is equired for its functioning, the same shall be specifically brought out &	VENDER TO CONFIRM		-
	The equipment should be commissioned by the supplier at BHEL, Jhansi			
	GUARANTEE	VENDER TO CONFIRM		
	he equipment is to be guaranteed in respect of material, construction and			+
fr	rom the date of commissioning. Any parts of units found defective have to be eplaced free of cost.	VENDER TO CONFIRM		
0 E	NVIRONMENTAL PERFORMANCE OF THE LIFTER :			-
CC	ir and noise pollution as per section 4 (i) of the noise and air pollution(regulation and ontrol) rules 2000 as amended time to time(latest amendment Jan. 2010)	VENDER TO CONFIRM		+
0 Q	UALIFYING CONDITION			
process following with the transfer of the tra	here similar forklifters have been supplied. This is required from all the indors for qualification of their offer.	/ENDER TO CONFIRM		
of		ENDER TO CONFIRM		
	Complete postal address of the customer.			i

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 the customer.	VENDER TO CONFIRM	
	- I S CONTINU	
7 Performance certificate from the customer regarding satisfactory performance of forklifter.	VENDER 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.	VENDER TO CONFIRM	
Y.K.Dhingra Sr. Engineer (WEX) Arjun Singh Manager(WEX) V.S.Chauhan Sr. Manager(FBM)	A.K.Shivpuri Sr. Mgr(WEX)	S.J.Chakraborty Sr.DGM(WEX)
R.N.JHA AGM(FAB) 3.3-2aV	· PS	>

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