10574 (R3)
MH-1/40/6302
BAY-6
ONE NUMBER

SUPPLY & COMMISSIONING OF 5 T DIESEL OPERATED FORK LIFT TRUCK. 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 / 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 5 T FORK LIFT TRUCK

S.NO	DESCRIPTION FOR BHEL REQUIREMENT			
		SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATION
1.0	PURPOSE		<del> </del>	<del> </del>
1.1	A Single drive forklift truck with simplex clear view mast 5 MT capacity at 600 mm load center operated through diesel is required for transporting of material from outside / inside of the store	VENDER TO CONFIRM		
2.0	WORK PIECE MATERIAL	-		
2.1	PRIME MOVER	VENDER TO CONFIRM	-	
2.1.1	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.	n		
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		
.1.7	Arrangement of cooling of II Lub oil to be provided for maintaining oil viscosity, oil temperature of the engine.	VENDER TO CONFIRM		
.1.8	Exhaust should be vertical	VENDER TO CONFIRM		
.1.9	The exposed portion of the muffler and steel pipe shall be adequotely graduated, and shall be used steel wire mesh enclosure.			
1.10	Engine should be complete with fly wheel, starter, battery, electric self starter, alternator	VENDER TO CONFIRM		
1.11	Engine should be neutral start	VENDER TO CONFIRM		

te			V	ENDER TO SP	ECIFY	T		T
						-		
_								
						$\top$		+-
e	touch hydraulic powe	r steering	$ \frac{1}{}$	ENDER TO CO	NEIDA	<u>_</u>		—
		3	- 1.		W IIXI	"		
_								
e	forward and backwa	rd automatic	VI	ENDER TO COM	VEIRN	1	<del></del>	┼
(	uto two speed torque	converter)						
			$\top$			+-		
au	cally operated telesco	pic wide viev	W \/E	NDER TO CON	ICIO!	-		
a	d other auxiliary funct	ions.	"   "	INDER TO COR	IFIKIV	'		
ŀ	draulic circuit for prof	ection agains	et lv/F	NDED TO CO.				
i۱	loading.	collon agains	or I AF	INDEK TO CON	FIRM			
_			-					
ŀ	avy duty, self adjusta	ble and salf	-	NDED TO CO.				
ď	ydraulically disc brak	es.(Power	.  ve	NDER TO CON	FIRM			
		,						
e	so as to prevent entr	v of greace in	_			ــــ		
	as to provent onto	y or grease ii	"			1	- 1	
_	provided					1		
е	rovided		VE	NDER TO CONF	IRM			
_							- 1	
_						$\vdash$	-+	
JG S	or starting of engine. e and rating should b	Battery	VEN	NDER TO SPEC	IFY			
·u	, and rating should b	e submitted	1			1	- 1	
			1			1	- 1	
			VEN	IDER TO CONF	IRM	├─	-+	
r	narging the battery.		$\perp$					
	- gg the battery.		IVEN	DER TO CONF	IRM			
_							- 1	
8	ail lights.		VEN	DER TO CONFI	RM		$\overline{}$	
_				•				
	fter.			DER TO CONFI	RM			
ni	g horn. This warning	horn should	VEN	DER TO CONFI	DA4			
	eration of the forklifte	er.		O OONFI				
		1						
_	,		_					
e	ront at a convenient p	lace for	1/5015	NED TO CO				
	auge engine eil mann		VENL	DER TO CONFI	RM			
e, et	arking broke On ind:	cator,						
et		- 1						
		1						
_					$\dashv$		-	
_					_	1		





2.8.1	The			
2.0.1	The operator's seat should be ergonomically designed for best	VENDER TO CONFIRM		
	comferts, fully tested and sturdy overhead guard with provision for cle view upwards when stacking.	ar		
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	+	
2.9	TYRES		+	
2.9.1	The frount and rear wheels to be fitted with standard non-skid cusion rubber type.	VENDER TO CONFIRM	<del> </del>	-
2.10	CONSTRUCTION		+	
2.10.1	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		<del></del>
2.10.3	The fork attachement should be supplied complete with load back rest.	VENDER TO CONFIRM		
2.10.4	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	-	-
1.11	List of standard accessories to be submitted with offer			
		VENDER TO SPECIFY		
.12	List of optional Accessories with item wise prices to be sbmitted.	VENDER TO SPECIFY		<del>                                     </del>
.0	SPECIFICATION:			+
.1	Capacity when used with for attachment at 600 mm load center: 5000 KG	VENDER TO CONFIRM		
	Power type : Diesel Engine	VENDER TO CONFIRM		<del> </del>
	Engine make - Simpsons/Parkins/Kirloskar/Tata	VENDER TO SPECIFY		<del> </del>
	BHP ,RPM & Torque of engine 4 Cyliner , 4 Stroke engine	VENDER TO SPECIFY		1
		VENDER TO CONFIRM		
-	Gear type oil pump for lubrication Radiator for cooling	VENDER TO CONFIRM		<del>                                     </del>
	Non-skid cusion rubbor ture to	VENDER TO CONFIRM		
	No. of tyres (4 Nos front / 2 Nos	VENDER TO CONFIRM		
	,	VENDER TO CONFIRM		
	lyd. System for lowering/hoisting/tilting	VENDER TO CONFIRM		
_		VENDER TO CONFIRM		
		VENDER TO CONFIRM		
	ver head guard	VENDER TO CONFIRM		
m		/ENDER TO CONFIRM	-	
5 M	aximum telescopic fork height : 3400 mm(MIN)	/ENDER TO CONFIRM		





3.16	Ground clearance at lowest point and at centre of the wheel base - 160 mm(+ 5 %) and 240 mm(+5%) respectively.	VENDER TO CONFIRM		
3.17	Length of forks : 1200 mm(± 5%)	VENDER TO CONFIRM	1	
3.18	No. of forks : Two	VENDER TO CONFIRM	1	
3.19	Width of forks : 150 mm( <u>+</u> 2%)	VENDER TO CONFIRM	1	
3.20	Cener distance of Fork adjustable beween : 350-1500 mm	VENDER TO CONFIRM		1
3.24	Minimum outside turning radius : 3000 mm (APPROX)	VENDER TO CONFIRM	<del> </del>	<del> </del>
3.25	Tilt - Forward - 6 degree & Backward - 10 degree	VENDER TO CONFIRM	<del>                                     </del>	
3.26	Maximum speed of truck in Forward / reverse at full load : 16KM /Hr	VENDER TO CONFIRM		<del>                                     </del>
3.27	Max Lifting speed at full load : 300mm+/-100mm per sec.(adjustable with lever)	VENDER TO CONFIRM		
3.28	Max. Lowering speed at full load : 350mm+/-100mm per sec(adjustable with lever	VENDER TO CONFIRM		
3.29	Maximum gradient at full load /No load : 16 / 21 %	VENDER TO CONFIRM	1	<del>                                     </del>
4.0	INSPECTION / TESTING		<del>                                     </del>	+
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.	VENDER TO CONFIRM		
5.0	MISCELANIOUS		<del> </del>	
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 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		
5.3	Recommended spares for 2 years normal working to be quoted with item wise prices.	VENDER TO CONFIRM		
5.4	Optional equipment to be quoted for environmental protection.	VENDER TO CONFIRM		
5.5	Four copies of test, operation , maintenance manual & spare part list to be supplied with the forklifter.	VENDER TO CONFIRM		
5.6	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		
5.7	The equipment should be commissioned by the supplier at BHEL, Jhansi	VENDER TO CONFIRM		
6.0	GUARANTEE			<del>  </del>
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		
.0	QUALIFYING CONDITION			

•

7.1	Only those yeards who have		
	Only those vendor who have supplied & commissioned at least 02 No. 5T or higher capacity diesel fork lifter of similar specification in the past ten year and such forklifters presently working satifactorily for more the 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.		
	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	
	Year of suppling / commissioning.	VENDER TO CONFIRM	
	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	
8.0	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the ôffer shall be rejected.	VENDER TO CONFIRM	
	Y.K.Dhingra ArjunSingh H.V.BHATIA Sr. Engineer(WE&S) Manager(WEX) Sr. Manager (TRM)	A.K.Shivpuri Sr.Manager(WEX)	S.J.CHAKRABORTY Sr. DGM (WE&S)

fr Jul

CHAIRMAN