	BHARAT HEAVY ELECTRICAL LIMITED, J	HANSI	······
	Specification No		10583
	Item No		MH-1/7/63
	Location		LOCO
	Quantity SPECIFICATION CLIM COMPLIANCE OF THE C		One numb
Note	SPECIFICATION CUM COMPLINCE CERTIFICATE OF	15 TON TROLLEY	
	VENDOR must submit complete information agaist clause No-17.0 (Quaclause would only be processed	lifying Condition). The offe	r meeting th
	, and and army be poecessed		
	2 The "Specified/to be confirmed by venderOffered" Coloumn and where a the formate shall be filled in by the Vendor and submitted along with the with the offer. Inadequate/Incomplete. Ambigues, of the state of the		
		mation against any of the c	lauses of hte
	1		
	3 The offer and all documents elclosed with offer should be in English lang	uge only.	
<u>sco</u>	PE:		
UE	SIGN, MANUFACTURING, SUPPLY, ERECTION & COMMISSIONING OF	15 TON MOTORISED TR	DILEVAS
S.I	NO. DESCRIPTION FOR BHEL REQUIREMENT		OLLE: MO
	TOWN FOR BREC RECOIREMENT	SPECIFIED / TO BE	DEVALUATION
	1.0 PORPOSE & WORK PIECE MATERIAL:	CONFIRMED BY VENDER	DEVIATION
•	1.1 Motorised rail trolley is required for the inter-box motorial transfer. The	VENDOR TO CONFIDE	
	("O"O) Will DC 10 toll. Holley Should move on prepaired rail trade	VENDOR TO CONFIRM	
	:: of Specification		
	2.1 Capacity of trolley (Pay load) : 15 Ton	VENDOR TO CONFIRM	
2	7.2 Trolley platform size: L-5000 MM X W-3000 MM	VENDOR TO CONFIRM	
	.3 Track gauge (Rail) : 1676 mm	VENDOR TO CONFIRM	
	.5 Track length : Max. 100 meter	VENDOR TO CONFIRM	
2	.6 Trolley movement required : Max. 100 meter (forward & reverce)	VENDOR TO CONFIRM	
2	.8 Troiley speed per miniuts : Max. 40 meter (Variable speed)		
2	9 Platform Height from rail top : Max. 1300 mm (loaded condition)	VENDOR TO CONFIRM	
2.1	0 Wheel base	VENDOR TO CONFIRM	
2.1	1 Wheel - Forged steel having 600-800 mm dia	VENDOR TO SPECIFY	
2.1	2 Approximate tare weight of trolley in Ton :	VENDOR TO SPECIFY	
2.1	Number of Axle : 2 Nos	VENDOR TO SPECIFY	
	Number of bogies	VENDOR TO CONFIRM	
	5 Motor rating in KW	VENDOR TO SPECIFY	
		VENDOR TO SPECIFY	
2. 1	Rail size- 90 LBS (Provided) (However it may change depending upon actual site condition).	VENDOR TO CONFIRM	
	Operation - Through control desk operated from both end of the trolley.		
3.0	CONSTRUCTION	VENDOR TO CONFIRM	
	Motorised rail trolley consist of under frame & bogie, suspension, wheel axle		
		VENDOR TO CONFIRM	· · · · · · · · · · · · · · · · · · ·
	The state of vertical particular control population Management is	1	
	Tooling cable shall be part of the trolley.		
3.1	UNDER FRAME		
3.1.1	The under frame and bogie of the motorised trolley shall be made out of rolled	VENDOR TO CONFIRM	
	steel section and beams. The beams and sections shall be welded adequately.		
3.1.2	The under frame top be covered with steel plate of adequate thickness. Chequered		j
	plates stips shall be welded on top of the platform to avoid slippage over platform.	VENDOR TO CONFIRM	
	The main mombars of the state o		
3.1.3	the main members of the platform shall be suitably rainforced to withstand	VENDOUS TO COMPINE	
	The main members of the platform shall be suitably rainforced to withstand shock loads encountered in service.	VENDOR TO CONFIRM	j
3.1.4	Four nos spring buffers shall be provided on the trollow that are held in		
3.1.4 3.1.5	Four nos spring buffers shall be provided on the trolley (two on both side) One No hook type coupling shall be provided on both.	VENDOR TO CONFIRM VENDOR TO CONFIRM VENDOR TO CONFIRM	

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIONS
3.1.7	Lifting lugs of adequate strength shall be provided for lifting the trolley (without load) by EOT crane.	VENDOR TO CONFIRM	
3.2	SUSPENSION		
3.2.1	The suspension shall consist of Silico maganese steel coil spring.	VENDOR TO CONFIRM	
3.3	WHEEL AXLE ARRANGEMENT		
3.3.1	The wheels shall be made out of EN9 forged steel suitable for IRS 52 or cast steel wheel to IS 2702 Gr II	VENDOR TO CONFIRM	
3.3.2	The wheel tread and flange and axle bore portion shall be machione finished.	VENDOR TO CONFIRM	
3.3.3	The running tread and flange portions shall be induction hardended to give extended life.	VENDOR TO CONFIRM	
3.3.4	The wheel tread and flange shall be machined to indian Railway standard.	VENDOR TO CONFIRM	
3.3.5	The wheel shall be pressed on the axle by force for (by hydraulic press)	VENDOR TO CONFIRM	
3.3.6	The axle shall be made out of alloy steel forging	VENDOR TO CONFIRM	
	The wheel axle assebmly shall run on antifrication spherical roller bearings housed in cast steel.		
3.3.8	The bearing used shall be of SKF/FAG make only.	VENDOR TO CONFIRM	
	Provision shall be made topping up of grease in service.	VENDOR TO CONFIRM	
	GEAR BOX ARRANGEMENT Case hardened, single helical gear box arrangement of splash lubrication, shall be provided. Over and above it shall be a product of suprier design, latest	VENDOR TO CONFIRM	
3 4 2	manufacturing technology and best quality of material. The bearing used shall be of SKF/FAG make only.	VENDOD TO CONFIDM	
	-	VENDOR TO CONFIRM	
	The gear box shall be axle monted and shall be fitted with torque	VENDOR TO CONFIRM	
	DRIVE SYSTEM		
	The drive system shall consist of an A.C.motor coupled to the gear box.		
	The motor shall be mounted on the gear box base and assembly shall be suspended from the frame through torque arm.		
	MOTOR Motor should be suitable for the trolley (A.C.Motor)	VENCOD TO COVERN	·
		VENDOR TO CONFIRM	
	Motor shall sonfirm to IEC indian standards.	VENDOR TO CONFIRM	
	Following details are to be given by vender:		
.6.3.1	Motor Voltage	VENDOR TO SPECIFY	
.6.3.2	Motor rating in KW	VENDOR TO SPECIFY	
.6.3.3	Type	VENDOR TO SPECIFY	
	Make of the motor	VENDOR TO SPECIFY	
	Model of the motor	VENDOR TO SPECIFY	
	CONTROL PANEL	VENDOR TO SPECIFI	
	The electrical system shall consist of control panel, down lead (cable drum type), Suitable rating variable frequency drive and speed control system.	VENDOR TO CONFIRM	
	The system shall includes protection against over current, short circuit, earth fault, phase failure protection, motor over load, over voltage, under voltage, over temperature etc.		
	Variable frequency drive arrangement with control switch gear shall provided for suitable rating motor.		
	proction, motor over load, over voltage, under voltage, over temprature etc.	VENDOR TO CONFIRM	
- 1	Speed control arrangement with control switch gear shall be proveded for suitable rating of motor.	VENDOR TO CONFIRM	
ı	Trolley shall be operated form driver desk (both end of the trolley) with speed control, start/ stop (ON/OFF), Forward/ reverse push buttons. As emergancy push button shall also be provided for stopping the trolley in emergency	VENDOR TO CONFIRM	

S.NO.	PER SPECIFICATION BELOW DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIONS
3.7.7	All electrical & electronic control cabinets & panels should be dust and vermin proof.	VENDOR TO CONFIRM	
3.7.8	The complete control circuit for the system shall be housed in a common control panel suitable located on the frame base plate. All indicating instruments necessary for monitoring the system shall be suitabaly located on the control panel. The panel shall be complete with MCCB/ ICTPN switch for incoming supply, All contractors, relays, starter, timer, single phasing preventor, HRC fuses, step down transformer for control voltage etc.	VENDOR TO CONFIRM	
3.7.9	Trolly shall also be operated from operator desk having forward and reverse operation with emergency stop.	VENDOR TO CONFIRM	
3.8	BRAKE SYSTEM		
3.8.1	Fail safe electro magnatic/ Electro hydraulic thuster brake shall be provided on the gear box shaft.	VENDOR TO CONFIRM	
3.8.2	Provision shall be made for manual release of brake, if needed.	VENDOR TO CONFIRM	
	LIMIT SWITCH		
3.9.1	Lever type limit switched shall be provided to on both side of trolley to stop the lever over travel.	VENDOR TO CONFIRM	
3.10	WARNING SYSTEM.		
3.10.1	Electric hooter and gong bell/hutter shall be provided. The electric hooter shall be activated automatically at the time of trolley movement.	VENDOR TO CONFIRM	
	ELECTRICAL SYSTEM		×
	415 Volt +1-% -10%, 50HZ+/-3%, 3 phase A.C. power supply source will be provided by BHEL at a single point.	VENDOR TO CONFIRM	
	TROPOCALISATION : All electrical /electronicsequipment shall be tropicalized.	VENDOR TO CONFIRM	
3.11.3	All electrical & electronics cabinets & panel should be dust and varmin proof.	VENDOR TO CONFIRM	· · · · · · · · · · · · · · · · · · ·
3.11.4	All electrical components in the cabinets should be mounted on DIN rail	VENDOR TO CONFIRM	
3.12	PAINTING		
3.12.1	Two coats of red oxide metal primer followed by two coats of synthetic enamel paint of deep orange colour shall be done.	VENDOR TO CONFIRM	
4.0	AMBIENT CONDITIONS & THERMAL STABLITY		
	Total system including all supplied items should work trouble free and effcienctly under following operating conditions to achive specificied accuracies. Ambient conditions: Temperature =5 to 50 degree C	VENDOR TO CONFIRM	
	Wheather conditions are tropical. Atmosphare may be dust laden during some part of the year. System shall be kept in the normal shop floor conditions. Max. temperature variations is 25 deg. C in 24 hours. (Vendor to confirn the system is suitable for above and details of provision on the system for the same are to be furnished by VENDOR)	VENDOR TO CONFIRM	
	DOCUMENTATION:		
	Three stes of following documents (Hard copies) in English language should be supplied along with the system.	VENDOR TO CONFIRM	
	Operation and maintenance manuals	VENDOR TO CONFIRM	
	Details Maintenance manual of the system with all drawing of assemblies/ sub- assemblies/ parts including Electrical/ Pneumatic/ Coolant/ Hydraulic circuit diagrams. All assembly/ sub-assembly Drawings shall be supplied with the part list also.	VENDOR TO CONFIRM	***************************************
5.4	Catalogues, O & M manual of all bought out items including drawings.	VENDOR TO CONFIRM	
	MAINTENANCE:	İ	
6.1	We would stress the need of adequate maintenance facility for all gearboxes and working mechanism which shall be located below platform level and shall be easily	VENDOR TO CONFIRM	
7 0	SPARES:		

S.NO.	PER SPECIFICATION BELOW DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIONS
7.1	Itemised breakup of mechanical, hydraulic, electrical and electronic spares used on the trolley in sufficient quantity as per recommendation of Vendor for 2 years for trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following, in addition to other recommended spares:(Unit Price of each item of spare should be offered).	VENDOR TO CONFIRM	
7.2	Mechanical & Hydraulic Spares: Thrusters Brake, Gears, Pinions, Shafts, Wheels, Hydraulic Seals for Gear Boxes etc.	VENDOR TO CONFIRM	
7.3	Electrical /Electronic Spares	VENDOR TO CONFIRM	······································
7.4	Vendor to confirm that complete list of spares for the trolley and its controls along with specification / type / model, and name & address of the spare supplier shall be furnished along with documentation to be supplied with the Trolley.	VENDOR TO CONFIRM	
8.0	SAFETY ARRANGEMENTS: Following safety features in addition to other standard safety features should be provided on the Trolley.	VENDOR TO CONFIRM	
	Trolley should have adequate and reliable safety interlocks / devices to avoid damage, work piece and the operator due to the malfunctioning or mistakes. Trolley functions should be continuously monitored and alarm / warning indications through lights/ alarms should be available.	VENDOR TO CONFIRM	
	A detailed list of all alarms / indications provided on trolley should be submitted by the supplier.	VENDOR TO CONFIRM	
	All the pipes, cables etc. on the trolley should be well supported and protected.	VENDOR TO CONFIRM	
	All the rotating parts used on trolley should be statically & dynamically balanced to avoid undue vibrations. Open gears, couplings, fans/ rotating parts should be provided with suitably guarded.	VENDOR TO CONFIRM	
8.5	Suitable Lifting arrangement like Lifting Hooks, Jacking pads, Eye Bolts etc is required for lifting of Motors, other subassemblies or heavier structures.	VENDOR TO CONFIRM	
8.6	Emergency Switches should be provided at suitable locations.	VENDOR TO CONFIRM	
8.7	Electrical cable & signalling cables should be suitably separated.	VENDOR TO CONFIRM	
9.0	ENVIRONMENTAL PERFORMANCE:		
9.1	The trolley shall conform to following factors related to environment:	VENDOR TO CONFIRM	
	Maximum noise level shall be 85 dB(A) at normal load condition, 1 M away from the trolley with correction factor for back ground noise, if necessary. This will be measured as per international standards like DIN 45635-16. Supplier to demonstrate compliance to noise level.	VENDOR TO CONFIRM	
	If any safety / environmental protection enclosure is required it should be built on the trolley by the vendor.	VENDOR TO CONFIRM	
	Paint of the trolley should be appllied only after providing rust-preventer (primer) coat.	VENDOR TO CONFIRM	
9.5	Oil / Grease should not dip/ fall from the trolley.	VENDOR TO CONFIRM	
	ERECTION & COMMISSIONING:		
İ	Supplier to take full responsibility for carring out the erection, start up., testing of system, its control system & all type of other supplied equipment. Power, air & water shall be provided by BHEL at only one point to be indicated by Supplier.	VENDOR TO CONFIRM	
10.2	The trolley is to be Erected at site by the supplier with their own labour, tools and tackles. All equipments shall be brought by the supplier on returnable basis.	VENDOR TO CONFIRM	
[1	The load test shall be performed at BHEL site for proving of the trolley w.r.t technical, Safety Parameters etc the trolley shall be commissioned.	VENDOR TO CONFIRM	***************************************
10.4		VENDOR TO CONFIRM	· · · · · · · · · · · · · · · · · · ·

	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIONS
10.5	Portion, if any, of the trolley / sub- assemblies / panel or other accessories where paint has rubbed off or peeled during transit or erection should be repainted and merged with the original surrounding paint by the vendor. For this purpose, the vendor should supply sufficient quantity of touch-up paint of various colours of paint used.	VENDOR TO CONFIRM	
10.6	Schedule of Erection and Commissioning shall be submitted before starting of erection work	VENDOR TO CONFIRM	
10.7	Charges, duration, terms & conditions for E&C should be furnished in detail separately by vendor along with offer.	VENDOR TO CONFIRM	
11.0	TRAINING:	VENDOR TO CONFIRM	
	Vendor to impart training to BHEL personnel for operation & for maintenance at BHEL works after Erection, Commissioning and handing over of the trolley. Supplier should arrange for training of BHEL personnel free of cost for the system.	VENDOR TO CONFIRM	
12.0	DOCUMENTATION : Three sets of following documents (Hard copies) in English language should be supplied along with the crane.	VENDOR TO CONFIRM	
12.1	During participation in technical Bid.	VENDOR TO CONFIRM	
2.1.1	G.A. Drawing.	VENDOR TO CONFIRM	·
	Wheel Load Diagram (Wheel Distance & Wheel Load).	VENDOR TO CONFIRM	
	Vendor to submit appropriate Q.A. Plan.	VENDOR TO CONFIRM	
	After Receipt of Order: (For approval)	VENDOR TO CONFIRM	·
2.2.1	Calculation for under frame & bogie, suspension, wheel axle arrangement, Wheel Load calculation & Calculation for selection of Diameter of Wheel, Motor, Gearbox and Brake etc.	VENDOR TO CONFIRM	
- - 1	3 - sets of followings documents like G. A Drawings, Structural drawings, Assembly Drawings/ Sub- assembly Drawings, Gear Box Drawings (specially of Typical Gears having Helix Angle, Pressure Angles, Modules etc.), Electrical Drawings comprising Power, Control Circuits, Electronic Circuitry diagram for remote etc. No fabrication / purchase of BO. Items should be taken up before the approval of the drawings.	VENDOR TO CONFIRM	
	Q.A.Plan		······································
2.2.3	Q.A.Plan With the supply of trolley	VENDOR TO CONFIRM	
2.2.3 (12.3 (With the supply of trolley		
2.2.3 (12.3 (2.3.1 (2.3.2 (With the supply of trolley Operating manuals of trolley - 3 Sets. Detailed Maintenance manual of trolley. Spares- part list / concerned drawing of the spares -3 Sets.	VENDOR TO CONFIRM VENDOR TO CONFIRM VENDOR TO CONFIRM	
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S.NO.	DESCRIPTION FO	R BHEL REQUIREMENT	R SPECIFICATION BELOW	SPECIFIED / TO BE CONFIRMED BY VENDER	DEVIATIO
13.2.2	braking shall be t Remote operation measurement, etc.	ested. For load test the requon, interlocking, Performa c shall be carried out. Test-ld. If found satisfactory, the control of the carried out.	onducted . Operational Speed & ired load will be provided by BHEL. nce of motors with current Reports & other documents shall be trane shall be accepted and	VENDOR TO CONFIRM	
	Load Test shall b Safety Parameter & handed over.	e performed at BHEL site for setce the trolley shall then	r proving of the trolley w.r.t technical, only be considered commissioned	VENDOR TO CONFIRM	
14.0	MISCELLANEOL	JS:			
14.1	All gear boxes sh oil in gear box.	ould have oil level indicator	to show the level and condition of the	VENDOR TO CONFIRM	
14.2	All material used appropriate I.S. S	should be of the best of their pecification & all workman s	respective kinds and should of the hip should be of best quality.	VENDOR TO CONFIRM	···
!	PAINTING: The structural steel work should be given one coat of suitable primer with 25 micron of DFT (Dry film Thickness) and 48 hours of compalsory curing after painting. Final paint should be done with two coats of light orange synthetic enamel paint each with a DFT of 25 microns and intermittent curing of minimum 16 hours			VENDOR TO CONFIRM	
14.4	First fill oil, grease supplier.	etc. for the commissioning	of the trolley shall be provided by the	VENDOR TO CONFIRM	
14.5	Tool box with star	dard tools shall be supplied	with the trolley.	VENDOR TO CONFIRM	
14.6	Supplier shall info	rm BHEL in advance to witn	ess assembly and load test.	VENDOR TO CONFIRM	····
	GUARANTEE:				
15.1	24 Months form the date of acceptnce of the trolley			VENDOR TO CONFIRM	
16.0	GENERAL: The V	ENDOR should submit the	following information:		
16.1	Model of the offere	ed trolley		VENDOR TO SPECIFY	
16.2	Total connection le	oad (KVA)		VENDOR TO SPECIFY	
16.3	Floor area require	d (Length, width, Height) for	complete system & accessories)	VENDOR TO SPECIFY	
	Total Weight of the	•		VENDOR TO SPECIFY	
	QUALIFYING CO				
1	higher capicity in t satisfatorily for mo following informati	he past ten years and such the rethen one year after common is to be submitted by the	st one motorised trolley of 15 Ton or trolleyes are presently working hissioning, should quote . The Vendor about the compnies where form all the vendors for qualification	VENDOR TO CONFIRM	
F	ourchase order to	be furnised)	nilar trolley is installed. (copy of	VENDOR TO SPECIFY	
		I address of the customer.		VENDOR TO SPECIFY	
		/ commissioning.		VENDOR TO SPECIFY	··
		nation of the contact person		VENDOR TO SPECIFY	
				VENDOR TO SPECIFY	
tı	6. Performance certificate from the customer regarding satisfactory performance of trolley supplied to them			VENDOR TO SUBMIT	4
18.0 E	BHEL reserves the right to verify information submited by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.		VENDOR TO CONFIRM		
)	11/5/10	•	2 21311	1/2/1/2	-
	IAKRABORTY	K.D.MANJHI	INDER MATHUR	MØHD ARSHAD)
20 U	GM (WE&S)	DGM (LMM & LMP)	SR. MANAGER (WE&S)	MANAGER (LMN	