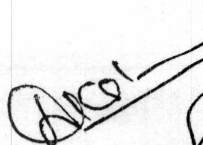
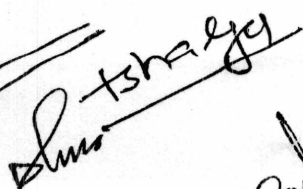
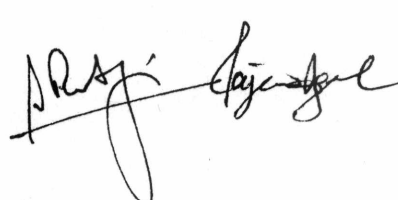


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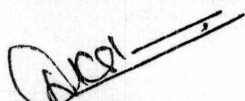
BHARAT HEAVY ELECTRICAL LIMITED, JHANSI				
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 250 TON AERO CASTER SYSTEMS				
EQUIPMENT		AERO CASTER (250 TON)		
ITEM NO		MH-1/7/6334		
LOCATION		POWER ASSY. SHOP (BAY-9)		
QUANTITY		1 NO.		
SPECIFICATION NO.		10577		
NOTE:				
1. Vendor must submit complete information against clause no. 13.0 (Qualifying Condition). The offer meeting this clause would only be processed.				
2. Vendor to furnish the offer using this standard template of the specification. While furnishing the offer, no change is to be made in the first three columns (i.e. 'S.NO.', 'DESCRIPTION FOR BHEL REQUIREMENT' & 'ACTION BY VENDOR'). Only the "Offered" column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.				
3. The offer and all documents enclosed with offer should be in English language only.				
NAME & ADDRESS OF THE SUPPLIER :				
CONTACT PERSON'S NAME				
TELEPHONE NOS. :				
E-MAIL ADDRESS :				
SCOPE: DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 250 TON AERO CASTER COMPLYING WITH SPECIFICATIONS AS BELOW :				
SNO	DESCRIPTION FOR BHEL REQUIREMENT	ACTION BY VENDOR	OFFERED	DEVIATIONS
1	PURPOSE & WORK PIECE MATERIAL			
1.1	Purpose:			
	The Aero caster is required for transportation of heavy transformer from one place to another place i.e. from the routine testing area to impulse test area & vice-versa. Aero caster should comprise of mover of rigid construction covered with a top plate of steel, suitable nos of air bearings, no load-wheels, drive units, pneumatics and air supply system.	VENDOR TO NOTE		
2	SPECIFICATION :			
2.1	250 Ton Aero - Caster, loading pallet and loading pallet design.	VENDOR TO CONFIRM		
2.1.1	250 Ton Aero caster : 01 No.	VENDOR TO CONFIRM		
2.1.2	Loading pallet .Capacity- 250 ton (To be supplied by BHEL as per vendor's design)	VENDOR TO NOTE		
2.1.3	Loading pallet design only (suitable for 250 Ton aero caster) : 1 No. VENDOR MUST QUOTE SEPARATE PRICE FOR FOLLOWING ITEMS SEPERATELY IN PRICE BID A. AERO CASTER 250 TON B. LOADING PALLET DESIGN FOR 250 TON CAPACITY	VENDOR TO CONFIRM		
2.2	Technical Parameters / Features			
2.2.1	Dimensions of 250 Tons Aero-caster			
2.2.1.1	Length : 7.200 (± 500) mm	VENDOR TO CONFIRM & SPECIFY		
2.2.1.2	Width : 2500 (± 100) mm	VENDOR TO CONFIRM & SPECIFY		
2.2.1.3	Height : 450 mm (± 50) mm	VENDOR TO CONFIRM & SPECIFY		
2.3	Movers :- With built in driving unit and Radio Remote control. Details to be furnished along with the offer.	VENDOR TO CONFIRM & FURNISH		
2.4	Air Bearings:- Suitable no. of air bearings should be provided in the mover for moving the mover with the load. It should be possible that air bearings could be easily drawn out for inspection and service with unloading or lifting up through mover. Details to be furnished along with the offer.	VENDOR TO CONFIRM & FURNISH		
2.5	Drive unit: The mover should be equipped with electrical/pneumatic steerable drive units, suitably located in the steel construction. The speed should be controllable from the control handle bar / RRC, in forward/ reverse, left & right and angular rotation direction. Details to be furnished along with the offer. For electrical steerable drive unit the mover should be equipped with suitable maintenance free battery pack including a battery charger & a battery status indicator.	VENDOR TO CONFIRM & FURNISH		
2.6	Load carrying pallet design :			
2.6.1	Construction details/drawings of loading Pallet (cap-250 ton) along with all technical details should be furnished by vendor with in 6 weeks from the issue of purchase order with OGA for aero caster.	VENDOR TO FURNISH		
2.7	Pneumatics :- All pneumatics control system should be housed in a pneumatic control cabinet suitably located on the mover. The pressure in the air bearing should be automatically regulated from the control system in relation to the weight of the load and the location of the centre of gravity.	VENDOR TO CONFIRM		
2.8	RRC:- The mover should be easily manoeuvred by a radio remote control with following functions	VENDOR TO CONFIRM		
	1) Key switch	VENDOR TO CONFIRM		
	2) Emergency stop	VENDOR TO CONFIRM		
	3) Air bearings On/ OFF	VENDOR TO CONFIRM		
	4) Provision for the control of speed and angular direction of the drive units	VENDOR TO CONFIRM		
2.8.1	RRC shall be provided with following	VENDOR TO CONFIRM		
	1) Batteries and battery charger for its transmitter unit.			
	2) 3 sets of Batteries and 1 No. additional charger for its transmitter unit			
	3) Detailed specification of Batteries used with receiver unit			

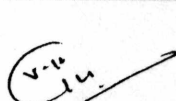


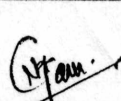


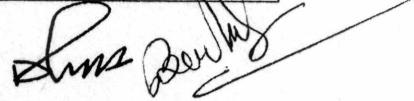
8.3	Demonstration of all features of the Aero-caster system & all accessories to the satisfaction of BHEL for their efficient and effective use.	VENDOR TO CONFIRM		
8.4	Demonstration by actual use of all supplied items and accessories to their full capacity.	VENDOR TO CONFIRM		
8.5	Commissioning spares, required for commissioning of the system within stipulated time, shall be brought by the supplier on returnable basis.	VENDOR TO CONFIRM		
8.6	Schedule of Commissioning shall be submitted with the offer.	VENDOR TO CONFIRM & FURNISH		
8.7	Charges, duration, terms & conditions for Installation & Commissioning should be furnished in detail separately by vendor along with offer.	VENDOR TO CONFIRM & FURNISH		
9	AMBIENT CONDITIONS & THERMAL STABILITY :			
9.1	Total System and all supplied items should work trouble free and efficiently under following operating conditions and should give specified accuracies. Power Supply: Voltage: 415 V +/- 10% , 3-Phase, no neutral OR 230 V single -phase Frequency: 50 Hz ± 1.5 Hz Operating Humidity : 15% to 90% (Vendor to confirm that system is suitable for above).	VENDOR TO CONFIRM		
10	PACKING:			
10.1	Air worthy/Sea worthy & rigid packing for all items of complete system, all Accessories and other supplied items to avoid any damage/loss in transit. When system is despatched in containers, all small loose items shall be suitably packed in boxes.	VENDOR TO CONFIRM		
11	GUARANTEE :			
11.1	24 months from the date of commissioning of the system.	VENDOR TO CONFIRM		
12	GENERAL : The vendor should submit the following information with the offer:			
12.1	The mover should be prevented with a bumper of steel and a movable brush guard for preventing bodily injuries and loose objects from coming in under the mover.	VENDOR TO CONFIRM		
12.2	Equipment Make & Model	VENDOR TO FURNISH		
12.3	Total weight of the system	VENDOR TO FURNISH		
12.4	Total connected Electrical load(KVA)	VENDOR TO FURNISH		
12.5	Vendor to submit along with offer, the reference list of customers where such type of systems have been supplied, mentioning the name of customer, Machine Model, major specifications of the supplied system, Year of Supply etc.	VENDOR TO FURNISH		
12.6	Detailed catalogues, sketch/ photographs of the equipment and accessories/ attachments should be submitted with the offer.	VENDOR TO FURNISH		
12.7	Suggested inventory list of spares to be maintained by BHEL for satisfactory operation of the system beyond guarantee period, along with price of major items.	VENDOR TO FURNISH		
13	QUALIFYING CONDITIONS :			
13.1	Only OEM (Original equipment manufacturer) or their authorized indian agent(documentary support is required with offer) should quote, who have supplied and commissioned at least five number of aero caster transport systems of 250 Ton or higher capacity during the past ten years, (from the tender opening date)P.O.Copy & successful commissioning report is required.	VENDOR TO CONFIRM & FURNISH		
	Further,			
	The following information is to be submitted by the vendor about the companies where similar air-cushion transport systems have been supplied. This is required from all the vendors for qualification of their offer.			
	1. Name of the customer / company where such type of air-cushion transport systems is installed. Copy of Purchase order should be furnished.	VENDOR TO FURNISH		
	2. Complete postal address of the customer.	VENDOR TO SPECIFY		
	3. Year of commissioning (Copy of commissioning report should be furnished).	VENDOR TO FURNISH		
	4. Application for which the system is supplied.	VENDOR TO SPECIFY		
	5. Name and designation of the contact person of the customer.	VENDOR TO SPECIFY		
	6. Phone, FAX no. and email address of the contact person of the customer.	VENDOR TO SPECIFY		
14	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.	VENDOR TO NOTE		

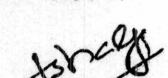

D.K.Sharma
Dy.Mgr.(TRM)

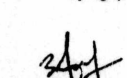

Y.K.Dhingra
Dy.Mgr.(MOD)

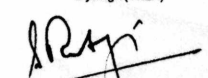

V.K.Gupta
Dy.Mgr.(WEX)

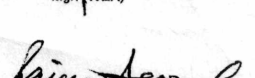

N.K.Gaur
Mgr.(WEX)


Dharendra Kumar
Mgr.(TRM)


K.D.Gupta
Sr. Mgr.(FCX)


Oscar Angel
A.G.M(TRM-PT)


Sanjeev Rastogi
A.G.M(WEX,MOD)


Rajeev Agrawal
A.G.M(Quality&Test)


S.J.Chakrobarty
A.G.M(WEX,MOD,FCX&HSE)

