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**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**  
**TRANSFORMER ENGINEERING DEPARTMENT**

FORM NO: TRE-2003A

ANNEXURE TO INDENT-CUM-ENQUIRY - **240694207**  
DESCRIPTION OF EQUIPMENT : **ELECTRIC WINCH MACHINE**  
WORK ORDER : **62189-P-512-01**  
CUSTOMER : **M/S NHPC PARBATI**

DTD.:-

**SPECIFICATION OF ELECTRIC WINCH MACHINE**

**1. GENERAL:**

This specification governs the supply of Electric Winch Machine with electric motor Drive and Wire Rope

**2. TECHNICAL REQUIREMENTS -.**

- a) Capacity: 5 ton (Pulling) on rail
- b) Wire rope dia: 22 mm minimum, length 100-meter wire rope steel core galvanized size 6 x 36 with forged steel eye hook, double ferrule and safety latch for Pulling of 115 Ton Transformer.
- c) Drum dia and Drum Shaft: Heavy duty fabricated Tube with side flanges suitable to accommodate 100 mtrs of wire rope in multiple layer.
- d) Drum shaft: Forged Carbon Steel.
- e) Input Power: 3 phase supply 415 volt, 50 Hz.
- f) Motor Rating: Electric motor of approx. rating, TEFC Sq Cage suitable crane duty motor 400/415 Volt, 50 Hz, 3 phase, Class of Insulation F, No. of Start/Stop approx. 150 per hour.
- g) Operation Control: DOL starter with other necessary equipment enclosed in Powder Coated CRC sheet Control Panel.
- h) Control Panel: Control panel suitable for motor provided with contactor, overload relay, amp/volt meter, Push Button for on and off, forward, reverse and pendent push button. lamp for incoming supply, HRC fused, and step down transformer for control circuit if required. Control panel is weather proof.
- i) Brake Type: Electro-hydraulic Thruster Brake
- j) Rope Speed: 8-10 meter/minute on top layer.
- k) Additional Brake Type: yes
- l) Gear box type: worm gear type/ helical reduction gear box
- m) Base frame: Fabricated with rolled steel sections/plates properly ribbed. Floor with checker plate for working area with lifting lugs provided. Anchoring holes for foundation provided

REV	DATE	ALT CKD	REV-	DATE	ALT- CKD-	REV 00	NAME	SIGN	DATE
						PREP	S. Dutta	<i>S. Dutta</i>	21.06.19
						CKD	A Dave	<i>A Dave</i>	22.6.19

DWI/TCB/TRE/010

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**3. GUARANTEE**

The equipment shall be guaranteed for a period of 30 months from the date of dispatch or 24 months from the date of commissioning whichever is later. Free after sales service is to be provided by the supplier during guarantee period.

**4. INSPECTION & DESPATCH**

One set of test reports, operation and maintenance manual, descriptive catalogue/ leaflets shall be sent along with dispatch document. One set shall be supplied along with the equipment.

The supplier shall furnish a list of all fittings and components in the dispatch details giving description and quantity of each item (Quantity of each item shall be mentioned). All items shall be properly packed in wooden boxes so as to avoid scratches/damage in transit.

**5. INSTALLATION AND COMMISSIONING:**

Installation & commissioning of the system if required is also in the scope of supply. The supplier shall install & commission the equipment and provide training for operation and maintenance to our ultimate customer at site on intimation of BHEL and obtain certificate from the customer for the same. Supplier should quote the charges for the same, if any, in the offer separately.

All associated accessories as supplied by the vendor for commissioning of equipment shall be properly commissioned at site.

**6. DEVIATION**

Any deviation from the above specification may be indicated point wise with proper justification in duly filled and signed **Annexure -I**.

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**Annexure -I**

**Compliance Check List**

	Requirement	Yes/ No	Deviation, if any
1.	General		
2.	Technical Requirements		
3.	Guarantee		
4.	Inspection & Dispatch		
5.	Training, Installation & Commissioning		
6.	Any deviation		

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Seal and Signature of Bidder