

## PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 03  
Dt of Revision : 25.07.2017

Issue No : 2  
Issue Dt. : 30.06.2003

Section : Formats  
Topic : e-Tender Technical Specification Document

Issued by : P A  
Documents : PPM  
FORMAT NO.:CPRI/PUR/eTBID/GTP

**Section II -Technical Specification**

**CENTRAL POWER RESEARCH INSTITUTE, BANGALORE Web: [www.cpri.in](http://www.cpri.in), [www.tenderwizard.com/CPRI](http://www.tenderwizard.com/CPRI), Telefax: 080-2207 2010**

Tender Enquiry No.: CPRIblr19MED41M561

Description of the Equipment/Goods/Services: Supply, Installation & Commissioning of 5 tonne Capacity Electrical Winch

Note : 1) The Offers should be submitted only in this format otherwise the offer will be liable to be rejected.

2) All blue fields are mandatorily to be filled in.

3) Pre-despatch Inspection & Training expenses shall be borne by CPRI. Information regarding the readiness of the equipment/machinery for the Pre-despatch Inspection should be communicated in writing by the supplier at least 70 (Seventy) days in advance, to obtain clearance from the Ministry, Government of India for deputation of nominated CPRI officers.

Name of the Vendor

Quotation Number and Date

Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by the Bidder	
				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
A.	GENERAL TECHNICAL DETAILS FOR WINCH				
1	Winch Type	Electrically operated single drum reversible power winch conforming to IS 9507 in general. Farme mounted electrical winch with latest advanced technique (preferably VFD i.e variable frequency drive) of capacity 5 tonne with forward & reverse operations along with base frame, drum, motor, gear box, flexible couplings, electro magnetic braking device, limit switches on both sides, wire rope guides, control panel, main isolator with HRC fuses and suitable protection. Ability of 5 tonne on single wire rope fall without any displacement from its position, winch frames should be provided with sustainable arrangements for anchoring.			
2	Application	Lifting, Pulling, Hauling, Tensioning etc			

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3	Safe working load	5.00 tonnes tested on 50% overload			
4	Rope Speed (App)	2 m/min & 4 m/min on top layer of rope			
5	Factor of Safety on Wire Rope	As per IS 9507: 1979			
6	Rope Drum (grooved suitable for one layer)	Heavy duty fabricated type or seamless tube made, grooved, with side flanges, suitable to accommodate atleast 60 mtrs of wire rope of 26 mm diaas per IS 2266, galvanized			
7	Drum Shaft	Forged, Carbon Steel En 8/9			
8	Drum	De-Clutchable			

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9	Bracket / Bearing	Steel fabricated / Double Row Spherical Bearing, Make: FAG / SKF / URB			
10	Brake	a) EHT mounted in between Gear Box and Motor on a coupling cum brake drum.  b) Manual band type, Hand or foot operated.			
11	Gear Box	Suitable as per design of reputed make such as Alroyd, Radicon, Ruby, Shanti Gears or equivalent.			
12	Fasteners	Reputed make such as T.V.S, UNBRACO only.			
13	Skid size preferred may be noted	Steel construction, Heavy duty, sturdy and provided with gussests, foundation holes & lifting lugs.			

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14	Speed reduction	a) By spur Gear and Pinion (Spur gear of Cast steel and Pinion of EN 8/9 steel), provided with steel sheet covers.  b) By totally enclosed, oil splash lubricated Gear box. Or Total speed reduction by totally enclosed, oil splash lubricated Gear box.			
15	Coupling	Half Geared, Half Rigid			
16	Electric Motor	10.00 HP, 3 Phase, 50 Cycles, 415 Volts, AC, squirrel Cage, TEFC, 40% CDF, S4 duty, Crane duty, 150 starts per hours			
17	Brake	Electro Hydraulic Thruster (EHT)			

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18	Starter (VVVF DRIVE)	Suitable for speed variations. Consisting of main specs: YASKAWA, L and T or any other standard make AC Drive, Fan, Filter, MCCB, Push Buttons, Contractors, Indicating Lamps DBR, Brake Contactors. All the components are housed in sheet metal, powder coated, Lockable Panel			
19	Manual Operation	Required. The winches will be operated from control room panel located at a distance of 200 meters (the power & control cable is in CPRI scope upto the winch starter panels)			
20	Paint	Smoke Grey Synthetic			
21	Cable	20 meters			
<b>B</b>	<b>CONTROL PANELS</b>				

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1	Control Panels with 8 starters	Quantity : 2 Nos. Suitable rating confirming to relevant IS & IP 65.			
C	<b>Other Mandatory requirements:</b>				
1	Manufacturer's test certificate of motor, brake, wire rope, electrical equipment (wherever applicable) shall be provided				
2	Load & Over Load Test Certificate shall be issued after actual tests at our works during Pre-Despatch inspection.				
3	Warranty period for a minimum period of One year is required				
4	The winch shall be supplied with all its standard accessories and with all standard operational tools				
5	The Operation Manuals / Catalogues / Maintenance procedures shall be submitted				

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D	Other Important Notes				
1	The winches will be operated from control room individually with existing winch control panels. The approximate distance between the winch houses at 125 & 175 mtrs. The required power & control cables are already available since the existing winch houses are having similar electrical				
2	The Installation & Commissioning of new winches shall be done under the supervision of CPRI				
3	The supplier can visit the site at CPRI, Bengaluru for any clarification before submitting the offer				

PN: 1) Bidder shall indicate complete details/information how the CPRI GTP are complied with against each and every specification parameters & mere statement of 'complied' do not suffice the requirement.

2) A detailed technical/catalogue/literature/phamplet and any other details shall be submitted in hard copy in a sealed cover superscribing enquiry number and due date so as to reach the following address within the due date and time.

3) The Indian representative of the foreign/overseas firms shall submit the Letter of Authorization issued by their principals.

4) The bidder shall submit the quotation / offer in the above prescribed format of Section IA, IB and II only. Informations any other forms shall be rejected.

Address : Joint Director (Purchase), Purchase Authority, Central Power Research Institute, Sadashiva Nagar P.O., P.Box.No.8066, Bengaluru-560 80.

Telefax: 080-2207 2010., email: [purchase@cpri.in](mailto:purchase@cpri.in), web: [www.cpri.in](http://www.cpri.in)