



Prof. Krishanu Biswas  
प्रो० कृशानू बिस्वास  
Professor  
प्राध्यापक  
Department of Materials Sc. & Engg.  
पदार्थ विज्ञान एवं अभियांत्रिकी विभाग  
I.I.T Kanpur-208016 (India)  
भा० प्रो० सं० कानपुर-208016 (भारत)

फैक्स / Fax: +91-512-679/392/259 (7505 int.)  
दूरभाष / Phone: +91-512-679/392/259 (6184 int. O)  
वेब /web : <http://home.iitk.ac.in/~kbiswas>  
क.न. 210 सी पो.- आई. आई. टी.  
कानपुर- 208016 (उ. प्र.) भारत  
Office: WL-210-C, PO. I.I.T  
Kanpur-208016 (UP), India  
E-mail: [kbiswas@iitk.ac.in](mailto:kbiswas@iitk.ac.in)

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Last Date has been extended till : 14.06.2018

## **Tender for Induction Generator (as a part of Induction Furnace Setup)**

The technical specifications of the equipment are provided below;

S. No.	Item	Description		
1.	TruHeat HF 5010 (450kHz Table Top)	<b>Electrical Data</b> <ul style="list-style-type: none"><li>Output power 5 kW</li><li>Intermediate circuit power DC 11.2 kW [100%]</li><li>Output frequency 50 – 450 kHz @ 35 A</li><li>50 – 800 kHz @ 17.5 A 1)</li><li>Output voltage 520 V</li><li>Intermediate circuit voltage DC 540 V</li><li>Output current max. 35 A</li><li>Intermediate circuit current DC 25 A [100%]</li></ul>		
2.	Control	<b>Range of Control</b>	<b>Value</b>	
		<ul style="list-style-type: none"><li>Output current</li><li>Intermediate circuit power</li><li>Voltage at in-series capacitor</li><li>Optional regulator</li></ul>	10 – 100 %, +/- 1 % 4 – 100 %, +/- 1 % 10 – 100 %, +/- 1 % 1 – 100 %, +/- 1 %	
3.	Mains connection data	<ul style="list-style-type: none"><li>Mains voltage</li><li>Mains frequency</li><li>Power factor (cosine phi)</li><li>Efficiency</li><li>Fuse protection</li></ul>	3/PE AC 400 V +/- 10 % 50/60 Hz 0.95 90 % 25 A	
4.	Environmental conditions	<b><u>TEMPERATURE</u></b>	<b><u>REL. AIR HUMIDITY</u></b>	<b><u>AIR PRESSURE<sup>4)</sup></u></b>
	<b>Operation</b>	+10 – +45 °C	10 – 90 % 1)	800 – 1013 hPa
		1). No condensation or icing 2). Existing cooling water circuits must be completely empty and blown out 3) Max. rel. humidity if the device temperature increases slowly by 40 °C or if the device temperature increases suddenly from –20 to +30 °C		

5.	Cooling data (water)	<ul style="list-style-type: none"> <li>• Max. supply pressure</li> <li>• Min. differential pressure</li> <li>• Flow-through quantity at 3 bar approx</li> <li>• Max. Length of hose between water circuit.</li> <li>• Additional installations, differing hose lengths or unsuitable routing effect the flow yields.</li> <li>• Water connection inflow and outflow</li> <li>• Max. cooling water temperature</li> </ul>	<p>6 bar</p> <p>3 bar</p> <p>9.5 l/min 1)</p> <p>3 m</p> <p>The flow values specified in the technical specification of the external circuit must be met</p> <p>Total water amount: power supply unit + external circuit + inductor  pipe PA 12; 8 x 6 x 1 mm  35 °C</p>
		<p>To ensure the cooling water properties and the required throughput, the use of a recooling system will be used.</p>	

**Terms & Conditions:**

1. Cost of the items including relevant accessories with technical specification should be mentioned in detail.
2. Offer should be made on FOR IIT Kanpur basis.
3. Your quotation shall contain Authorization Letter from manufacturer.
4. Kindly enclose Catalogue and Photographs of quoted model with complete technical specifications.
5. Payment Term: 100% Advance payment.
6. Warranty : Two Years
7. Quotation Validity : 90 days
8. Purchase order will be directly placed to the company
9. Delivery period: within 12-16 weeks from the date of purchase order.
10. Two separate bids, Technical and Financial bid to be submitted in separate sealed envelopes. Write on envelope enquiry number, item name and last date of tender.
11. The vendor must have sufficient experience of supply and installation of induction power supply units in the reputed academic institutes and labs in India. At least 7 years of experience in required. The vendor is required to provide at least 10 installation details in India along with technical bid.
12. Availability of after sale service in India is mandatory.

Prof. Krishanu Biswas  
Professor  
WL- 210  
Solidification & Nanomaterials Lab  
Department of Material Science & Engineering  
Indian Institute of Technology Kanpur  
Kanpur – 208016, India