



IISER Mohali

# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित  
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*CPPP/Institute Website/Newspaper*

IISERM (712)16/17Pur

16<sup>th</sup> November 2016

## **TENDER NOTICE**

Sealed tenders are invited in **TWO BID SYSTEM** {Technical and Commercial separate, (i) Technical bid envelope contain- Technical write-up, EMD and tender fee (ii) Commercial bid envelope contain price detail. Technical and commercial bid should be sealed in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed} are invited for the supply and installation of High Field Magnet along with EMD to be submitted by DD /Banker Cheque/FDR/ Bank Guarantee for Rs 3,00,000/- and Tender Fee of Rs 1,000/- (non-refundable) through DD in favour of the Registrar, IISER Mohali payable at Mohali, so as to reach us latest by **8<sup>th</sup> December 2016** on or before 1 pm and will be opened on the same day at 4 PM.

Sr.	Description	Qty.
	<b>High Field Magnet</b>	<b>01</b>
	<b>Specifications</b>	<b>Remarks of Vendor</b>
1	Vertical field superconducting magnet comprising of: 1. field greater than 16T 2. Magnetic 53mm central bore size 3. Central field homogeneity of 0.1% 4. Field homogeneity length of 10mm 5. Bottom loaded magnet to reduce the effective neck diameter 6. Should run at 4.2K for more than 16T 7. Full persistent mode with control	
2	Low Loss Cryostat for 16T Magnet 1. Stainless steel (SS316L non magnetic) helium vessel 2. Liquid nitrogen cooled radiation shield 3. Gas cooled secondary radiation shield 4. Optimized multilayer super insulation 5. Aluminium outer vacuum vessel 6. Over pressure relief valve 7. Bellows sealed vacuum evacuation valve 8. Integrated Variable Temperature Insert (VTI) 9. Integrated liquid helium level indicator 10. Cryostat should be fitted with liquid Helium level gauge, temperature sensors (CCS) and a heater at the base of the vessel to remove nitrogen on precooling. 11. The loss should be less than 6 liters/day when the magnet and the VTI are not running.	

3	<p>Integrated Temperature Insert (VTI) for 16T Magnet</p> <ol style="list-style-type: none"> <li>1. Should provide a dynamic temperature control in the range of 1.6 to 325K using an integral heater and calibrated cernox sensor.</li> <li>2. VTI top plate should have the access to an instrumentation port for heater and sensor wiring, a sample space pumping port and an NW50KF sample access port.</li> <li>3. Dynamic VTI should have an inner diameter of 50mm.</li> <li>4. Should offer an airlock and gate valve assembly</li> </ol>	
4	<p>Vector Field</p> <ol style="list-style-type: none"> <li>1. Magnetic field 9T-2T-2T</li> <li>2. 53mm central bore size</li> <li>3. Central field homogeneity of 0.1%</li> <li>4. Field homogeneity length of 10mm</li> <li>5. Bottom loaded magnet to reduce the effective neck diameter</li> <li>6. Should run at 4.2K upto 16T</li> <li>7. Full persistent mode with control</li> </ol>	
5	<p>Low Loss Cryostat for Vector Field</p> <ol style="list-style-type: none"> <li>1. Stainless steel (SS316L non magnetic) helium vessel with reservoir midway up dewar</li> <li>2. Gas cooled radiation shields (of high purity Aluminium)</li> <li>3. Optimized multilayer super-insulation</li> <li>4. Welded outer can of Aluminium with wear resistant paint</li> <li>5. Full demountability, using o-ring seals to permit full access to all internal parts</li> <li>6. Over pressure relief valve</li> <li>7. Bellows sealed vacuum evacuation valve</li> <li>8. Integrated Variable Temperature Insert (VTI)</li> <li>9. Integrated liquid helium level indicator</li> <li>10. Cryostat should be fitted with liquid Helium level gauge and level meter, temperature sensors (CCS) and a heater at the base of the vessel to remove nitrogen on precooling.</li> </ol>	
6	<p>Integrated Temperature Insert (VTI) for Vector Field (Optional)</p> <ol style="list-style-type: none"> <li>1. Should provide a dynamic temperature control in the range of 1.6 to 325K using an integral heater and cernox sensor.</li> <li>2. VTI top plate should have the access to an instrumentation port for heater and sensor wiring, a sample space pumping port and an NW50KF sample access port.</li> <li>3. Dynamic VTI should have an outer diameter of 46mm.</li> <li>4. Should offer an airlock and gate valve assembly</li> </ol>	
7	<p>Magnet Power Supplies:</p> <ol style="list-style-type: none"> <li>1. 20 bit Power supply for 16T magnet</li> <li>2. Three independent sets of 20 bit power supplies required for vector field</li> </ol>	
8	<p>Labview Control Automation</p> <p>The system should include a complete Pentium computer workstation with a National Instruments LabVIEW cryogenic software module to have full control of power supply parameters to sweep magnetic field with preferably GPIB based communication.</p>	

## **INSTRUCTIONS**

1. The Quotation should be addressed to the Assistant Registrar (S&P), IISER Mohali should on the top of the envelope invariably give Reference number with due date and time of submission of quotation. Quotation should be submitted directly by the original manufacturer/supplier, If quotation is submitted by any representative/agent/dealer then they must have to produce a authority certificate of principal party for quotating the price otherwise it will be very difficult at this end to consider such quotation.

2. One time importers from China with custom made specifications are highly discouraged.
3. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the bid, IISER Mohali reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or fax/ email and will also be hosted on IISER Mohali website.
4. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the **Ex-works/FOB/FCA/CIF/CIP** price clearly. Conditional tenders will be summarily rejected
5. In case of Ex-godown terms the amount of packaging forwarding freight etc should clearly be indicated by percentage or lump sum amount. Institute has policy **not to make any advance payments** towards any purchase, Letter of credit can be opened if required.
6. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no-51/96 –CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2011 DT. 02/09/2011 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997
7. TAX: - This Institute is not exempted from the payment of Sales Tax/Service Tax/VAT. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide the copy of PAN card, TIN number, Service tax number, Sales tax number duly self-attested.
8. The delivery period should be specifically stated. Earlier delivery will be preferred
9. The firms are requested to give detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
10. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee for 10 % of the value of supply order for warranty periods as per norms may be sought from firms.
11. Late or delayed quotation will not be accepted.
12. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved. For any corrigendum and addendum our website may please be checked regularly.
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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(Mukesh Kumar)  
Assistant Registrar (S&P)