M/s.

Dear Sirs,

The Director, Indian Institute of Astrophysics, Bangalore invites Sealed Tenders for the Import of “4Mega-pixel-1No.,1KX1K –2Nos and 2KX2K-1No CCD Camera (total 4Nos)” in the Tender Form hereto annexed. The terms and conditions are also enclosed may be noted and if you are in a position to quote for the supply in accordance with the requirement, please submit your quotation in the attached Tender Form. The Tender documents are available on IIA website www.iiap.res.in/tenders.htm

The Tender bids should be in foreign currency only. Your completed Tender bids must reach this office in sealed envelope duly superscribed with the name of the supply on or before 15.30 Hrs. latest by 10.09.2007.

Thanking you,

Yours faithfully,

Administrative Officer

For Director

Encl: as above.
TENDER FORM

FROM:

TO

THE DIRECTOR,
Indian Institute of Astrophysics,
Bangalore-560 034.

Sir,

I/We hereby offer to supply the Items/Equipment indicated below at the price hereunder quoted and agree to hold this office open till __________. I/We shall be bound to supply the Items/Equipment hereby offered upon the issue of the Purchase Order communicating to the acceptance thereof on or before the expiry of the last mentioned date. You are at liberty to accept any one or more of the items of such Items/Equipment. I/We notwithstanding that the offer in this tender has not been accepted in whole, shall be bound to supply such items and such portion or portions of one or more of the items as may be specified in the said Purchase Order communicating the acceptance.

<table>
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<tr>
<th>Sl.No.</th>
<th>Description of the item(s)</th>
<th>Qty.</th>
<th>Unit</th>
<th>Rate</th>
<th>Dely. Period</th>
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<tbody>
<tr>
<td>1.</td>
<td>1Kx1K EM Peltier cooled CCD Camera</td>
<td>2</td>
<td>Nos.</td>
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<td>CCD Format = 1024 x 1024</td>
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<td>Pixel Size = 13 x 13 microns</td>
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<td>Grade = 1 Chip</td>
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<td>Back illuminated UVB</td>
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<td>Read out rate : 10,5,3,1 MHz through EM amplifier,</td>
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<td>3 MHz &amp; 1 MHz through conventional amplifier</td>
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<td>EM gain = 1 to 1000 - quantitative and linear calibration</td>
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<td>of EM gain in the field Binning, flexible in both directions</td>
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<td>Hermatically sealed CCD for deep cooling, cooling with Air and</td>
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<td>water (both options) cooling = - 80 degree C with Air temperature of 20 degree C &amp; down to - 95 degree C with water at 10 degree C. PC interface, data acquisition and CCD control software C-mount + with mounting plates for attaching other Instruments chiller for water cooling.</td>
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</table>
2. 2K x 2K Peltier CCD Camera - 1 No.
   CCD Format - 2048 x 2048
   Grade - 1 chip
   Pixel size - 13.5 x 13.5 micron
   Front illumination
   Read out rate 16 bits at 1 MHz, 500 KHz, 62KHz & 31 KHz
   Read out noise = max. system noise 10 electrons
   Option of slow read out with max. system noise of H electrons.
   Cooling with suitable chiller / Air cooling (-60 degree C)
   Head Cable length 8 to 10 meter
   External power supply
   PC Interface, data acquisition and CCD control software
   inbuilt shutter and F mount, with mounting plate for attaching to other instruments.

3. 4 Megapixel CCD Camera with Lens - 1 No.
   Specifications:
   2048 x 2048 pixels full frame CCD array
   Pixel size - 7.5 microns x 7.5 microns pixel
   Readout noise less than 20 electrons (r.m.s)
   Back-illuminated
   Exposure time Min < 1 ms, Max – 1s.
   Shutter Electronic
   Frame rate > 10 fps
   Binning possibility with higher frame rate
   Wave length range 350 to 850 nm
   A/D converter - 12 bit
   Peltier cooling
   External trigger
   Camera Control hardware
   Camera control software with macros option

(Tender bids should be in Foreign currency only)
Place at which the Delivery is required : Indian Institute of Astrophysics  
Bangalore-560034

Date by which the supplies are required : 4 weeks from the date of order

2. I/We have understood the items of the tender annexed to the invitation to the Tender and have thoroughly examined the specifications/drawing and/or pattern quoted or referred to herein and/are fully aware of the nature of the items/Equipment required and my/our offer is to supply the items/Equipment strictly in accordance with the requirements subject to the terms and conditions contained in the Purchase Order communicating the acceptance of this tender either in whole or in part.

Date: Signature and Seal of Supplier

-3-
Annexure - 1

INSTRUCTIONS TO SUPPLIERS

1. Tenders should be sent in sealed and superscribed envelops with mention of Tender No. date and date of opening. Only one Tender should be sent in each envelope.

2. Late and Delayed Tender will not considered at all.

3. Duties, Taxes where legally leviable and intended to be claimed should be distinctly shown separately in the Tender.

4. a) Your quotation should be valid for 90-120 days from the date of opening of Tender

   b) Prices are required to be quoted accordingly to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

5. Preference will be given to those tenders offering supplies from ready stocks and on the basis of delivery at Site.

6. a) All available Technical Literature(s), Catalogue(s) and other data in support of the specifications and details of the item(s) should be furnished along with the offer.

   b) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should indicated in your offer.

   c) Air freight charges up to Bangalore Airport may be sent along with the offer.
d) **SPECIFICATIONS:**

Items/Equipment offered should strictly conform to our specifications. Deviation, if any should be clearly indicated by the Supplier in their quotation. The Supplier should also indicate the Make/type No. of the stores offered and provide catalogue(s), Technical literature(s) and sample(s), wherever necessary along with the quotations. Test certificates wherever necessary should be forwarded along with the supplies. Whenever options are called for in our specifications, the Supplier should address all such options. Wherever specifically mentioned by us the Supplier could suggest changes to specifications with appropriate response for the same.

1. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.

2. The Supplier should supply along with the tender, the Banking information for payment or any other purpose

3. A complete set of instruction and operation manual should be supplied at the time of installation.

4. Final performance should be guaranteed at the site.
TERMS AND CONDITIONS OF CONTRACT

1. DEFINITIONS:

a). The terms ‘Purchaser’ shall mean the Director, Indian Institute of Astrophysics, Bangalore-560 034.

b). The term ‘Supplier’ shall mean, the person, firm or company with whom or with which the order for the supply of Items/Equipment is placed.

d). The terms ‘Purchase Order’ shall mean the communication signed on behalf of the Purchaser by an officer duly authorized intimating the acceptance on behalf the Purchaser on the terms and conditions mentioned or referred to in the said communications accepting the tender or offer of the supplier for supply of Items/Equipment.

2. PRICES:

The price may please be indicated on unit basis only.

Duty Exemption:

Please note that we may issue “Customs duty Exemption Certificate”, if acceptable under the Govt. of India notification No. 51/96 valid till 2011.

3. GUARANTEE AND REPLACEMENT:

a) The Supplier shall guarantee that the Items/Equipment supplied shall comply fully with the specifications laid down, for material workmanship and performance. The Guarantee should be for a period of one year minimum from the date of supply.
4. **PACKING, FORWARDING AND INSURANCE:**

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packing shall be done by and at the expenses of the contractor. The Purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Supplier and the Purchaser shall pay only for such Items/Equipment as are actually received in good condition, in accordance with contract.

5. **TEST CERTIFICATE:**

Wherever required Test Certificate should be sent along with the relevant dispatch documents.

6. **ACCEPTANCE OF ITEMS/EQUIPMENT:**

a) The Items/Equipment shall be tendered by the supplier for inspection at such places as may be specified by the purchaser at the suppliers own risk, expenses and cost.

b) It is expressly agreed that the acceptance of Items/Equipment, for is subject to final approval by the Purchaser, whose decision shall be final.

7. **DELIVERY PERIOD:**

Delivery is the essence of the contract. The supplier should adhered to delivery schedule as indicated in the Purchase order.

8. **EXTENTION OF DELIVERY TIME:**

As soon as it is apparent that Supplier dates cannot be adhered to, an application shall be sent by the Supplier to the Purchaser. If failure, on the part of the Supplier to deliver the Items/Equipment in proper time shall have arisen from any cause which the Purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final he may allow such additional time as he considers it to be justified by the circumstances of the case). In case of Letter of Credit the banking charges for the LOC amendment will be on suppliers account.
9. **PAYMENT:**

Preference will be given to the supplier whose payment terms is on Site Draft.

10. **SECURITY FOR PAYMENT:**

Successful Supplier will have to furnish in the form of a Bank Guarantee or any other form as called for by the Purchaser towards any payments before supply of Items/Equipment. In case of payment through Letter of Credit the banking charges outside India and Inside India will be on suppliers account.