

INDIAN INSTITUTE OF TECHNOLOGY, DELHI
DEPARTMENT MECHANICAL ENGINEERING

Ref:IITD/MED/RP-2625/2012-13/02

DATED: 11-10-2012

SUBJECT: N.I.Q. for the purchase of High Speed Cameras (two numbers)

Quotations are invited for the purchase of high speed camera as per the following specification. The quotation should reach in the office of Prof. A. Chawla (Room No. 421, Block II) latest by 10:00 AM on 26-10-2012.

| | |
|---|--|
| Maximum Resolution | 1764 X 1024 or better in both directions |
| Resolution at 10000fps (\pm 5%) | 1764 X 1024 or better in both directions |
| Resolution at 30000fps (\pm 5%) | 400 X 256 or better in both directions |
| Sensor | CMOS |
| Pixel Size | <10 μ |
| Pixel depth | 30 bit color or better |
| Sensitivity | 2000ASA or better |
| Trigger | TTL & Switch / Circular Buffer with on camera and software trigger |
| Synchronization | Option to synchronize multiple cameras |
| Internal Memory | 8Gb or higher (Options for higher memory may be given) |
| Maximum Recording time @10000fps at full resolution | Should be more than 4 secs |
| Lens Mount | Should be able to mount F-mount lenses |
| Battery Powered Operation Time | \geq 45minutes |
| Software Interface | Interface with 32 and 64 bit Windows OS (Vista and Windows 7 included) |
| Software features | To be able to convert to standard video formats like TIF, BMP, JPG, AVI, MPG, MOV, PNG, MP4 formats as well as a sequence of raw pictures in JPG or BMP formats. |
| Communication | 1000BaseT Ethernet and USB |
| Image Quality / Processing | The camera should not have any inbuilt digital processing / image intensifier circuit. |

The following aspects should also be taken care of.

1. Separate sealed technical and sealed financial bids should be given in a single sealed envelope.
2. Validity of the quote should be atleast 90 days.
3. A warranty of atleast 1 year from date of installation should be given.
4. A company profile should be included in the technical bid.
5. In case the bid is a given through an agent, a valid agentship certificate should be attached.
6. If the item is a proprietary item, a proprietorship certificate form the principle manufacturer should be included.
7. The profile should include the following at the minimum:
 - a. The parent companies base in India, its customer list and the number of pieces of high speed cameras sold by it in India.

- b. The Indian agent's profile highlighting its past experience and the number of pieces of high speed cameras sold by it in India.
 - c. The Indian agent's plan on how the same shall be maintained, the capabilities of their maintenance team in India
 - d. THE COMPANY AS WELL AS THE INDIAN AGENT SHOULD HAVE SOLD ATLEAST 20 HIGH SPEED CAMERAS IN INDIA.
8. Indian agent should also include a copy of letter enlisting with the Department of Expenditure, Ministry of Finance as per GOI requirements.
 9. Accessories needed for functioning of the camera should be included in the quote and clearly specified. Additional accessories available may also be quoted separately as optionals.
 10. Delivery should be made on FOB basis only.
 11. A signed hand filled compliance sheet as attached, stating whether each of the specifications asked for are being met or not, should be included in the technical bid.
 12. If some specifications are not being met, deviations may be clearly stated. In the unlikely event that none of the vendors are able to meet all the specifications, the committee reserves the right to waive or relax any of the requirements at the technical evaluation stage.
 13. No advance payment shall be made.
 14. Payment will be made through wire transfer after successful installation.
 15. The Quotation received after due date will not be considered.
 16. The Institute reserves the right to reject any quotation without assigning any reasons.

After opening the technical bids, a demonstration of the product may be sought in IIT. The committee will shortlist the bids based on an evaluation of the technical bid, the demo, the efficiency / efficacy / ease of use / ability to maintain and other aspects of the equipment vis-à-vis the requirements. Financial bid would be opened only for the shortlisted companies.

(A Chawla)

COMPLIANCE SHEET

| Feature | Complies – Yes / No / Not Applicable (If no, deviation may be mentioned) |
|--|---|
| Maximum Resolution | |
| Resolution at 10000fps (± 5%) | |
| Resolution at 30000fps (± 5%) | |
| Sensor | |
| Pixel Size | |
| Pixel depth | |
| Sensitivity | |
| Trigger | |
| Synchronization | |
| Internal Memory | |
| Maximum Recording time @10000fps at full resolution | |
| Lens Mount | |
| Battery Powered Operation Time | |
| Software Interface | |
| Software features | |
| Communication | |
| Image Quality / Processing | |
| Separate Sealed Financial and Technical Bids | |
| Validity of the quote > 90 days. | |
| A warranty > 1 year from date of installation | |
| company profile included in the technical bid. | |
| valid agentship certificate attached. | |
| a proprietorship certificate form the principle manufacturer included. | |
| Profile includes the parent companies base in India, its customer list and the number of pieces of high speed cameras sold by it in India. | |
| The profile includes the Indian agent's profile highlighting its past experience and the number of pieces of high speed cameras sold by it in India. | |
| The profile includes the Indian agent's plan on how the same shall be maintained, the capabilities of their maintenance team in India | |
| Proof of THE COMPANY AS WELL AS THE INDIAN AGENT having sold ATLEAST 20 HIGH SPEED CAMERAS IN INDIA is attached. | |
| A copy of letter enlisting with the department of expenditure, Ministry of Finance as per GOI requirements included. | |
| Accessories needed for functioning of the camera are be included in the quote and clearly specified. | |
| Delivery is on FOB basis only. | |
| A signed compliance sheet included | |
| Deviations form specifications are clearly stated in the compliance sheet | |