Indian Institute of Technology Kanpur
Department of Civil Engineering

Date: 26.12.2012

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Ref. No: CE/OSI/LTAS/01/2012-2013
Closing Date: 11.01.2013 Time: 5PM

Sub: Quotation for Desktop Computer

Dear Sir/Madam,

We would like to procure one desktop computer for use in Digital Photogrammetry, Image Processing, and GIS where 3D visualization, 3D feature extraction and mapping are integral tasks. You are invited to provide quotations with the following features facilitating aforementioned applications.

Required Features

Processor: Intel i7-3820
Essentials
- 4 Cores, 8 Threads
- 10 MB Cache Memory
- 3.60 GHz Clock Speed (3.80 GHz Max Turbo Frequency)
- 64-bit Instruction Set (SSE4.2, AVX)

Motherboard: Intel DX79SR Original
Memory
- 8 240-pin DDR3 SDRAM Dual Inline Memory Module (DIMM) sockets arranged as 4 channels
- Support for DDR3 2400/2133/1866/1600/1333/1066 MHz DIMMs
- Support for up to 64 GB of system memory with 8 DIMMs using 4 Gb memory technology

I/O Option
- 6 USB 3.0 ports (4 external ports, 2 via internal header)
- 14 USB 2.0 ports (6 external ports, 8 via internal headers)
- 8 Serial ATA ports (4 internal connectors (6.0 Gb/s), 4 internal connectors (3.0 Gb/s))
- 2 IEEE 1394a ports (1 external port, 1 via internal header)
- Dual Gigabit Intel® (10/100/1000 Mbits/sec) LAN using 2 Intel® Gigabit Ethernet Controllers
- 10-channel (7.1 + 2 independent multi-streaming) audio with 5 analog audio outputs w/optical S/PDIF out port
- Expansion Option
- 3 PCI Express 3.0 x16 connectors
- 2 PCI Express 2.0 x1 connectors
- 1 Conventional PCI Connector

RAM: 16GB
Specification
- 1600 MHz DDR3 SDRAM Memory
- 240-pin Configuration

HDD: Seagate SATA ST2000DM001
2 TB Drive Capacity
- Specification
- 3.5 inch HDD
- 7200 rpm Spin Speed
- 6.0 Gbps SATA Interface
- 64 MB Cache Memory
- 8.5 (Read), 9.5 (Write) Average Seek Time

Graphic Card: Nvidia GeForce GTX 660 Ti
2 GB memory
- GPU Engine
- 1344 CUDA Cores
- 915 MHz Base Clock
- 980 MHz Boost Clock
- 112 billion/sec Texture Fill Rate

Memory
- 192-bit GDDR5 2048 MB Memory Interface
- 144.2 GB/s Memory Bandwidth
- 6.0 Gbps Memory Clock

Display
- 4096x2160 Maximum Digital Resolution
- 2048x1536 Maximum VGA Resolution
- 1 Dual Link DVI-I, 1 Dual Link DVI-D, 1 HDMI, 1 Display Port Display Connectors

Features
- PCI-E 3.0 Bus Type
- Support for DirectX 11
- Support for OpenGL 4.3

Keyboard & Mouse: Logitech Wireless Combo MK520
- Wireless Range Up to 30 Feet
- On/Off switch on both Keyboard and Mouse
- 2xAA(Keyboard) and 1xAA(Mouse) Alkaline Batteries

DVD Writer
- Max 24x DVD±R Write Speed
- Max 12x DVD-RAM writing
- Model Selection
- S-ATA interface: AD-7280S
- Auto Strategy - Optimize write quality
- Buffer under run protection

Monitor: Samsung S27A950D
Display
- 27" LED Screen
- 1,920 x 1,080 Display Resolution
- ≥ 120Hz refresh rate
- 2ms (G2G) Response Time
- 170°/160° Viewing Angle (Horizontal/Vertical)

- 16.7M Display Colour Support
- Display Port, HDMI, DVI-D (Dual Link) Connectors

Features
- In Built IR emitter
- 3 D ready
- with 3D Glasses
- Eco Light Sensor
- Eco Motion Sensor
- 3D Hyper Real Engine
- 2D to 3D conversion
- Stereo Audio Out
- Multi Screen

Cabinet with Power Supply
SLI compatible for supportable Nvidia GeForce GTX 660 Ti graphics card

<u>**Service Features**</u>
1) It must be noted that the machine should also be compatible for use with ERDAS Leica Photogrammetric suit with available emitter and 3D visualization spectacle (interested vendors are welcome to inspect these accessories) and modern digital photogrammetric mapping tools from other similar Software.

2) Warranty period should be clearly mentioned in the quotation. Local maintenance support should available. If not, please mention where the machine will be serviced in the event of failure. Further mention whether stand-by machine will be provided during down time within warranty period.

You are requested to submit your quotation in sealed envelope mentioning the following:
1. Cost of the item including three years warranty/free maintenance
2. Technical specifications in detail
3. Warranty period (must be 03 years)
4. Delivery time (items are to be delivered at IIT Kanpur)
5. Educational discount applicable considering end use for research and teaching
6. Payment terms (as per standard IIT Kanpur norms)
7. Proprietary Certificate, if applicable
8. Any other relevant details

Last date for the receipt of quotations (in a sealed envelope): January 11, 2013. Please note that your quotation must provide responses to all points raised under service features.

Please call Mr. R K Maurya at 2597722 for any further queries/clarifications in this regard.

Yours Sincerely

(Onkar Dikshit)
Professor
Department of Civil Engg.
I.I.T. Kanpur-208016