Rate Contract

Government of India

Directorate General of Supplies & Disposals Jeevan Tara Building, 5 Sansad Marg

New Delhi-110001 Tel Number 23360610/23360537

Rate Contract no. WORKSTN/IT-1/RC-71040000/0907/81/DA569/1963

Date 02-JUL-07

To,

QI NETWORK ENTERPRISE PVT. LTD.

430-431,

Somdutt Chamber-II,

9 Bhikaji Cama Place,

New Delhi

Sub: Rate Contract for supply of WORKSTATIONS valid from 25-JUN-07 To 31-MAR-08 .

Ref:(1) This Office Tender Enquiry no WORKSTN/IT-1/RC-71040000/0907/81 opened on 02-FEB-07.

(2) Your Quotation No WORKSTN/IT-1/RC-71040000/0907/81 And Dated 19-DEC-06.

Dear sir,

You are hereby informed that your above refered tender read with subsequent letters mentioned above for the Stores specified in the Schedules annexed has been accepted. This rate contract will be governed by the terms and conditions brought in the Form no. DGS&D 1001 available from dgs&d sales counter on payment of Rs. 50/- . The Rate Contract and the schedules annexed here to shall be the sole repository of this Rate Contract/ Transaction.

SCHEDULES ANNEXED

- 1. Schedule "A" Description of stores, prices, duties/taxes.
- 2. Schedule "B" special conditions of contract / Other information
- 3. Schedule "C" Information to DDOs about parallel rate contracts.

Yours Faithfully,

Assistant Director(S)/Section Officer/Dy.Director For and on behalf of the purchaser named in the Form DGS&D 1001.

COPY TO

- 1. The Chief Controller of Accounts, Department of commerce, New Delhi/COA Mumbai/COA Kolkata, COA Chennai.
- (Through authentication cell) This issues with the approval of competent authority.
- 2.Deputy Director General of Supplies & Disposals, Chennai -10 copies each
- 3.Deputy Director General of Supplies & Disposals, Kolkata -10 copies each
- 4. Deputy Director General of Supplies & Disposals, Mumbai -10 copies each
- 5.Deputy Director General (QA), Kolkata -10 copies each
- 6.Deputy Director General (QA), Chennai -10 copies each
- 7. Deputy Director General (QA), Mumbai -10 copies each
- 8.Deputy Director General (QA),DGS&D -10 copies each
- 9. Inspection Authority ADG(QA) DGS&D New Delhi 110001.
- 10.Quality assurance Officer Director (QA) Delhi Directorate/ Mumbai, Chennai/Kolkata.
- 11.Concurrent Audit
- 12.MIS Cell
- 13.Ledger clerk
- 14.0.L.Section
- 15.All Direct Demanding Officers as per mailing list maintained by DGS&D.

Assistant Director (S) / Section Officer / Deputy Director
FOR DIRECTOR GENERAL OF SUPPLIES & DISPOSALS

SCHEDULE - A

- 1. RATE CONTRACT No.:-WORKSTN/IT-1/RC-71040000/0907/81/DA569/1963
 Dated 02-JUL-07 for THE SUPPLY OF WORKSTATIONS
- 2. ADVANCE RATE CONTRACT NO.-Workstation/IT-1/RC-71040000/0907/81/COAD/1963

Dated 25-JUN-07

3.(a) NAME AND FULL ADDRESS OF THE FIRM -

QI NETWORK ENTERPRISE PVT. LTD. 430-431,

Somdutt Chamber-II,

9 Bhikaji Cama Place,

New Delhi

DELHI - 110066

Tel. No. - 911141659294

Fax - 911141659295

Email - rakeshsharma@qinetwork.com

(b) NAME AND FULL ADDRESS OF MANUFACTURER -

M/s SunMicrosystems Pte Ltd.1 Magazine Road,07-01/13 Central 59567.

- (ii) 4150 Network Circle, Santa Clara CA USA
- (c) BRAND: Sun Microsystems
- 4. VALIDITY OF RATE CONTRACT :: 25-JUN-07 To 31-MAR-08
- 5. DESCRIPTION OF ITEM, SPECIFICATION, UNIT, RATE

SrN Model No	. Store Descrip	otion	Unit	Rate (in Rs.)	Works
1	Items of workstations	Items: Workstation Dual- AMD Opteron Processor Based	NOS.	420000	
6	Add on items for workstations	Items: TFT Monitor for high resolution graphics, 48.26 cm	NOS.	20192.3	
7	Add on items for workstations	Items: TFT Monitor for high resolution graphics, 51 cm	NOS.	26600	
8	Add on items for workstations	Items: TFT Monitor for high resolution graphics, 58.4 cm	NOS.	48450	
9	Add on items	Items: USB 2.0 Optical Mouse 3	NOS.	538.46	

		for workstations	Button		
19		Add on items for workstations	Items: RAM 2 GB (4 x 512 MB) DDR-2 ECC 667 MHz	NOS.	16275
20		Add on items for workstations	Items: RAM 4 GB (2 x 2 GB) DDR-2 ECC 667 MHz	NOS.	37718.26
21		Add on items for workstations	Items: RAM 4 GB (4 x 1 GB) DDR-2 ECC 667 MHz	NOS.	35922.11
22		In lieu of Items for Operating Systems for workstations	To be supplied In lieu of Windows XP 64 bit: Red Hat Enterprise Linux workstation 3 Update 5 (64-bit),: for items 1 to 4	NOS.	7982.69
23		In lieu of Items for Operating Systems for workstations	To be supplied In lieu of Windows XP 64 bit: Red Hat Enterprise Linux Workstation 3 Update 5 (32-bit),: for items 1 to 4	NOS.	7759.61
24		In lieu of Items for Operating Systems for workstations	To be supplied In lieu of Windows XP 64 bit: Windows XP 32 bit	NOS.	-500
26 D	eleted	In lieu of items for Hard Drives for workstations	To be supplied: 250 GB SATA II 7200 rpm HDD, In lieu of: 80 GB SATA II 7200 rpm HDD for item No.1	NOS.	
28		In lieu of items for Hard Drives for workstations	To be supplied: 2 X 300 GB SAS 15000 rpm HDD, In lieu of: 2 X 146 GB SAS 15000 rpm HDD for item No.4	NOS.	35247.11
30 D	eleted	In lieu of items for Graphic Cards for workstations	To be supplied: NVIDIA FX 1500,In lieu of: NVIDIA FX 500	NOS.	

6-TERMS OF DELIVERY: Free delivery at consignee's place.

7-EXCISE DUTY: N.A.

8-SALES TAX: CST/VAT extra @4%.

9-DELIVERY PERIOD: 4-6 weeks from the date of receipt of

technically & commercially clear order,

road permit, Custom Duty Exemption Certificate wherever appliable.

10-ANNUAL TURNOVER/MONETARY LIMIT:

Without limit

11-PAYMENT TERMS As per Schedule-B

12-SLAB DISCOUNT CLAUSE: As per Schedule-B

13-PRICES: FIXED

14-QUANTITY OFFERED:

15-MIN. QUANTITY IN SINGLE

SUPPLY ORDER:

16-STATUS OF RC HOLDING FIRM: LSI

17-PAYING AUTHORITY: The Chief Controller of Accounts, Deptt.

> of Supply 16, AKBAR ROAD New Delhi -110011

 $\mathtt{ADG}(\mathtt{O.A})$, Jeevan Tara Building, 5 Sansad Marq New Delhi 18-INSPECTION AUTHORITY:

19-QUALITY ASSURANCE OFFICER: Director(QA), Delhi Directorate,

Jeevan Tara Building, 4th Floor, Sansad Marg

New Delhi DELHI -110001

20-PLACE WHERE THE STORES ARE TO

BE TENEDERED FOR INSPECTION:

M/s QI Network Enterprise Pvt. Lt.,430-431,9, Bikajicama Place,

New Delhi-110066.Te. 011-41659294,46032058, Fax-91-11-

41659295

21-R/C IS DDOs OPERATED

22-PACKING & SPECIFICATION see annexure

Asstt. Director (S) / Section Officer / Dy. Director For and behalf of the purchaser named in the Form DGS&D 1001.

All the R/C particulars including prices in respect of individual R/Cs are available on DGS&D website which can be accessed by all. The DGS&D website is http://dgsnd.gov.in

RC SPECIFICATION:

Schedule- B
Special Conditions of Contract::-

A. Orders to be placed on:

M/s. QI Network Enterprise Pvt. Ltd. 430-431, Somdutt Chamber-II,9-Bhikaji Cama Place, New Delhi-110066

Contact Person:-Mr. Rakesh Sharma Cell Phone : 9313372205

Email-rakeshsharma@qinetwork.com

Mr.S.N. Roy

Cell Phone:9350907292 Email-snroy@qinetwork.com Website:www.qinetwork.com

Mr. Mudit Bansal Cell Phone:9310495700

- 1. Insurance: As per DGS&D standard transit insurance clause, it will be responsibility of supplier for safe arrival of stores in full and good conditions at user's point and purchaser will not pay separately for transit insurance clause.
- 2. Warranty Terms: Prices to include supply and commissioning at site and Comprehensive warranty for a period of 36 months from the date of commissioning except for anti -virus softwares for which the warranty shall be one year from delivery. For this purpose, the laptop shall be delivered by the consignee at the nearest service enter of the firm and collect back after satisfactory repairs. Any component required to be replaced within the warranty period will be a totally new component and not reconditioned or repaired component.
- 3. Payment terms :
- 98% payment would be payable against proof of inspection and provisional consignee receipt certificate issued by consignee for having received the stores on said to contain basis. The balance 2% after successful demonstration and acceptance of stores by consignee in good condition and on submission of Bank Guarantee for balance 2% value of order valid till 2 months beyond the warranty period of 3 years indemnifying the purchaser against all losses incurred by the purchase during the guarantee/warranty.
- $4.\ \mbox{No}$ assistance for import of finished product or raw material will be provided.

- 5. `NIL' against Octroi Exemption Certificate to be provided by the indentor along with order otherwise extra, if applicable.
- 6. Octroi Duty and Local Taxes:

Normally materials to be supplied to Govt. Department against Govt. contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. The local Town/Municipal Body regulations at times, however, provide for such exemption only on production of such exemption certificate from any authorized officer. Contractors should ensure that stores ordered against contracts placed by this office are exempted from levy of town duty/Octroi duty, Terminal tax or other local taxes and duties. Wherever required, they should obtain the exemption certificate from the purchase officer or indentor concerned, to avoid payment of such local taxes or duties. Octroi, entry tax etc. on buyers account in absence of relevant exemption certificate.

7. Supply of Road Permits/ Way bill by the indentor/consignees:

In all such cases where the requirement of Road Permit/Way Bills for entry of goods into a particular State is mandatory, the following provisions shall be strictly followed: -.

- (a) The supplier shall request the indentor/consignee for providing Road permit/ Way bill within 10 days of the receipt of the Supply order. The supplier shall furnish all the necessary information and documents in this regard to Indentor/consignee.
- (b) On receipt of the above request from the supplier, the indentor/consignee concerned shall arrange to provide the Road permit/Way Bill in the prescribed form to the supplier within a maximum period of two weeks so that the same reaches the supplier before the dispatch of the stores. However, in cases where the Road permit/Way Bill is issued on proof of actual invoice of the material, the consignee shall arrange to provide the Road permit/Way Bill from appropriate authorities within a maximum period of 5 days from the receipt of invoice.
- (c) The supplier shall not be held responsible for any delay in supply due to non- supply/delayed supply of Road permit/Way bill by the indentor/consignee.
- (d) All cases of abnormal delay in providing requisite details/ documents by the supplier or issue of Road permit/Way bill by indentor/consignee, the same shall be reported to DGS&D.
- 8. Signing of Inspection Notes issued by QA Wing of DGS&D: Instructions to Indentors/Consignees.

Advance Payment Copy of Inspection Note for claiming 98% payment (copy No.1):

This is a provisional receipt. It only be tokens the receipt of stores by the consignee and is without prejudice to his rights of inspection and rejection under the general condition to contact. It is issued on said to contain basis the Contractor remaining responsible for proving the total quantities actually delivered. Consignee mentioned in the Inspection Notes should sign (in INK) & put his official rubber stamp on the Advance Payment Copy of Inspection Notes IMMEDIATELY on the receipt of the material and handover the same to the company's authorized representative. Where this is not possible or inconvenient, it should be signed (in INK) by an official authorized by the consignee in that behalf. In such cases, the official signing the receipt certificate should indicate his designation and the official on whose behalf he is signing; and put his official rubber stamp.

Balance payment & Accounts Copy of Inspection Note (Copy no 2& 5) for claiming 2% balance payment.

Within 90 days from the date of material received, Consignee mentioned in the Inspection Notes should sign (in INK) & put his official rubber stamp on the Balance & Accounts office copy of Inspection Notes and should fill up the columns of Receipt Voucher No.

In cases where the supply is incomplete or defective or the supplier do not carry out commissioning/demonstration of the stores within the period as per (i) above, the consignee shall report such cases immediately to the supplier and DGS&D.

In cases where the consignees do not release copy 2 and 5 of I/Notes within the period as (i) above for the reasons which are considered not valid by the supplier, they may approach DGS&D with complete details for authorization of balance payment without copy 2 and 5 of I/Notes and the same shall be considered by DGS&D on merits of each case.

- 9. Environmental Test Report will be submitted at the time of Inspection.
- 10. Discount.
- i). Custom Duty Exemption for Defence Customer covered under Custom Duty Notification No.39/96, the discount @ 10% shall be applicable on the rate contract prices.
- ii).Custom Duty Exemption for Educational & Research Institure covered under Custom Duty Notification No.51/96, the discount @7.63% shall be applicable on the rate contract prices.
- III). Slab Discount for bulk order for the single consignee

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location will be as under:-
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- 1.For Qty- 10 to 20 Workstations discount @ 1%
- 2. For Qty-20 to 49 workstations discount @ 2%
- 3. For Qty-50 to 99 workstations discount @ 3%
- 4.For Qty-100 and above workstations discount @ 5%

Schedule -D

Special Instructions to R/C holders:

Rate contract holders are advised that before entertaining the supply order, they should ensure the availability of following certificates from DDO's.

- a) That they are Central Government Department drawing funds from consolidated fund of India.
- b) The expenditure involved for the purchase has received the sanction of the competent financial authority.
- c) The funds are available under the proper head in the sanctioned budget allotment for the year.
- d) They have been fully authorized by the department to sign the supply order and incur the liability in respect of stores being ordered.

(G.P.SINGH)

ASSISTANT DIRECTOR (S)

For and on behalf of the purchasers named in the schedule/Form DGS&D-1001

Schedule-E

Item No. (1) As per Annexure- A

Model: SUN MICROSYSTEMS ULTRA-40

Unit Price: Rs. 420000.00

Specification: WORKSTATION DUAL PROCESSOR AMD OPTERON

PROCESSOR BASED SUN ULTRA-40

Workstation Dual Processor AMD Opteron Processor based for

Advanced Visualization & virtual Reality application

- 1 2 CPUs AMD Opteron 2214 Dual Core 1MB L2 Cache per core
- 2000MHz hyper transport bus or better processor
- 2 Chipset and Motherboard AMD Chipset
- 3 Memory 4GB DDR-2 PC5200 (667 MHz) ECC Registered (4X1GB) upgradable upto 16GB
- 4 Hard Disk Drive 2X146GB 15K SAS Drive
- 5 Storage Controller SAS Controller with RAID support 0 & 1 $\,$
- 6 Graphic Card 2X NVIDIA Quadro Fx3500 PCI Express (256MB)with

NVIDIA Scalable Link Interface (SLI) Technology

- 7 Keyboard USB/PS2 Standard Keyboard
- 8 Mouse USB 2-Buttons Optical Scroll Mouse
- 9 PCI Slots 5PCI/PCI Express including 1PCI Express X 16 for graphics
- 10 Bays Total 4 bays (8 Internal, 1 External)
- 11 Ports 5USB 2.0 Ports

- 12 Cabinet Mini Tower
- 13 Optical Drive 16X DVD Writer Drive
- 14 Networking Features Integrated 10/100/1000
- 15 Operating System Microsoft Windows XP Professional (64-Bit)
- 16 OS Certifications Windows XP Logo and Red Hut or Suse Linux
- 17 Application Certification ISV certified for Applications from the Digital Content creation (DCC) and Electronic Design Automation (EDA) and Mechanical Computer Aided Design (MCAD)
- 18 Safety Certification FCC for EMI and UL for safety
- 19 Power Supply 230V +/-10% single phase, 50Hz AC
- 20 Power Management ACPI (Advanced Configuration and Power Management Interface)
- 21 Bundle Software System Health monitoring Tool Available with Workstation

NOTE:-

II.The item No. mentioned under heading "in lieu of items for Hard Drives for Workstations" against No.25,26,27,28 &29 of Technical Specifications may be amended to read as under:
FOR READ

Item	No.25	Item No.1	Item No.2&4
Item	No.26	Item No.1	-do-
Item	No.27	Item No.2&3	Item No.3&5
Item	No.28	Item No.4	Item No.1
Item	No.29	Item No.1	Item No.2&4

SCHEDULE - C

LIST OF PARALLEL RATE CONTRACT FOR WORKSTATIONS

Sr.No.	NAME & FULL ADDRESS OF FIRM	R/C NO & DATE
2	DELL INDIA PVT. LTD. divyasree greens,ground floor challahatta village varthur hobli,bangalore south bangalore KARNATAKA 560071	WORKSTN/IT-1/RC- 71040000/0907/81/DA568/1964 02-JUL-07
3	QI NETWORK ENTERPRISE PVT. LTD. 430-431, Somdutt Chamber-II, 9 Bhikaji Cama Place, New Delhi DELHI 110066	WORKSTN/IT-1/RC- 71040000/0907/81/DA569/1963 02-JUL-07
1	AGMATEL INDIA PVT LTD E-366,2nd Floor, Nirman Vihar, Vikas Marg,Delhi 110092 Kind Attn.Mr. Vijay Malhotra- 9810054741(Delhi) Mr. A.K.Agarwal- 9810054742(Delhi) Mr. Arvind Sampat- 09844022033 (Bangalore) WLL-9313631201 to 07 Delhi DELHI 110092	WORKSTN/IT-1/RC- 71040000/0907/81/DA377/1962 02-JUL-07

NOTE:

- (1) Before placing supply order, DDOs are advised to check with DGS&D or on the website whether any further RCs have been awarded or amendments to Rate Contract have been issued
- (2) All the R/C particulars including prices in respect of individual R/C's are available on DGS&D website, which can be accessed by all. The access code of DGS&D website is http://dgsnd.gov.in

ANNEXURE

DETAILED SPECIFICATION:

(A) WORKSTATION DUAL-AMD OPTERON PROCESSOR BASED:

Workstation Dual-AMD Opteron Processor Based for Advanced Visualization & virtual Reality Application:

1. CPU : AMD Opteron 2214 Dual Core 1MB L2 Cache per Core

2000MHz hyper transport bus or better processor

2. Chip set and Motherboard : AMD Chipset

3. Memory : 4 GB DDR-2 PC5200 (667MHz) ECC Registered (4x1GB)

upgradeable up to 16 GB.

4. Hard Disk Drive : 2x 146 GB 15K SAS drive

5. Storage Controller : SAS controller with RAID support 0 & 16. Graphic Card : 2 X NVIDIA Quadro FX3500 PCI Express (256 MB) with

NVIDIA Scalable Link Interface(SLI) Technology

7. Keyboard

: USB/PS2 Standard Keyboard: USB 2-Button Optical Scroll Mouse 8. Mouse

9. PCI Slots : 5 PCI/PCI Express including 1 PCI Express X 16

for graphics.

10. Bays : Total 4 Bays (2 internal, 2 external)

11. Ports : 5 USB 2.0 Ports

: Mini tower 12. Cabinet

13. Optical Drive : 16x DVD Writer Drive
14. Networking features : Integrated 10/100/1000
15. Operating System : Microsoft Windows XP Professional (64-bit 16. OS Certifications : Windows XP Logo and Red Hat or Suse Linux

: Microsoft Windows XP Professional (64-bit)

17. Application Certification: At least four ISV certifications for Applications

from the following categories (Minimum one ISV certification from each category) as per lists

enclosed at Annexure `A'

(a) Digital Content Creation(DCC)

(b) Electronic Design Automation (EDA)

(c) Mechanical Computer Aided Design (MCAD) The Certification should be listed on the website of Independent Software Vendor (ISV). The Hardcopy of same shall be submitted with the technical bid.

18. Safety Certification : FCC for EMI and UL for Safety

19. Power Supply : 230V+/-10% single phase, 50 Hz AC
20. Power Management : ACPI (Advanced Configuration and Power Management

Interface)

21. Bundle Software : System Health monitoring Tool available with H/W

box.

22. Security : Integrated panel lock or pad lock

(B) WORKSTATION PORTABLE INTEL CORE DUO PROCESSOR BASED

Workstation Portable Intel Core Duo Processor Based for CAD/CAM/CAE& GIS Application.

1. CPU : Intel core Duo Processor T 2400 (1.83 GHz, 667

FSB, 2 MB L2 cache)

2. Chip set and Motherboard : Mobile Intel 945 PM Express Chipset with 667 MHz

FSB On Intel or OEM motherboard

3. Memory : 2 GB DDR-2 SDRAM (400 MHz) ECC Registered (2x1GB)
4. Hard Disk Drive : 80 GB 7200 rpm HDD

: 15 inches wide WSXGA Screen 5. Screen

: ATI Mobility FireGL V5200 with 256 MB Video 6. Graphic Card

Memory or NVIDIA Quadro FX 350 M with 512 turbo

Cache

7. Keyboard

: Standard Keyboard and optical mouse : 1-VGA, 1-RJ11, 1-RJ45, 1-Serial Port, 1-S-video TV 8. Ports

out, 3-USB 2.0 ports, 1-Docking Connector, 1-Travel

Battery Connector

9. Optical Drive : Multibay II DVD RW Drive : Multibay II DVD RW Drive : Gigabit NIC 10/100/1000 and Intel Pro 3945,802.11 wireless card

11. Operating System : Windows XP Professional
12. OS Certifications : Windows XP Logo and Red Hat or Suse Linux

13. Application Certification: The Workstation should be certified for PTC-Pro,

ESRI Arcinfo, solid works AutoDesk, Autocod and Avid Express and certification should be listed on the respective Website. Hardcopy of same shall

be submitted with the technical bid.

14. Safety Certification \qquad : FCC for EMI and UL for Safety

15. Power Supply : 230V , 50 Hz AC Supply with rechargeable battery

> pack comprising of Li-Ion Batteries suitable For approx. 4 hours operation complete with battery

charger/adaptor

(C) WORKSTATION INTEL XEON DUAL CORE PROCESSOR BASED.

Workstation Dual Capable Intel Xeon Processor Based For Computer Aided Engineering .

: 2.0GHz (4MB L2 cache) 64-bit Dual Core Intel Xeon 1. CPU

5130 processors

2. Chip set and Motherboard: Intel 5000 X chipset on Intel/OEM Motherboard

3. Memory : 2 GB (4X512MB) DDR-2 Synch DRAM PC2-5300 (667MHz)FB

4. Hard Disk Drive : 2 x 73 GB SAS HDD at 15000 rpm
5. Storage Controller : Integrated ISI 1068 SAS Controller RAID 0,1 &

External connector and also integrated SATA

Controller

6. Graphic Card : NVIDIA Quadro FX 3500 PCI Express (256MB)
7. Keyboard : USB/P1-2 Standard Keyboard
8. Mouse : USB 2-Button Optical Scroll Mouse
9. PCI Slots : 4 PCI/PCI Express including 1 PCI Express X 16
10. Bays : Total 4 Bays (2 internal, 2 external)
11. Ports : 6 USB 2.0,1 standard serial port,RJ-45, audio in,

audio out, mic in

12. Cabinet : Mini tower
13. Optical Drive : Combo CD RW/DVD-ROM Drive 14. Networking features : Integrated 10/100/1000

- 15. Operating System : Microsoft Windows XP Professional (64-bit)
 16. OS Certifications : Windows XP Logo and Red Hat or Suse Linux
 17. Application : At least four ISV certifications for Applications Certification from the following categories (Minimum one ISV certification from each category) as per lists enclosed at Annexure `A'
 - (a) Digital Content Creation(DCC)
 - (b) Electronic Design Automation (EDA)
 - (c) Mechanical Computer Aided Design (MCAD).

The Certification should be listed on the website of Independent Software Vendor (ISV). The Hardcopy of same shall be submitted with the technical bid.

- 18. Safety Certification \qquad : FCC for EMI and UL for Safety
- 19. Power Supply : 230V +/- 10% single phase, 50 Hz AC 20. Power Management : ACPI (Advanced Configuration and Power Management

Interface)

21. Bundle Software : System Health monitoring Tool available with H/W

box.

- : Integrated panel lock or pad lock 22. Security
- (D) WORK STATAION INTEL CORE 2 DUO E 6300 PROCESSOR BASED

Workstation Intel Core 2 Duo E 6300 Processor Based for Scientific Programming & Multimedia Application .

1. CPU : Intel Core 2 Duo E 6300 processor (1.86 GHz, 2

MB, L2 Cache, 1066 MHz FSB)

2. Chip set and Motherboard: Intel 975X chipset on Intel/OEM Motherboard

3. Memory : 1 GB (2x512MB) DDR-2 ECC (667 MHz) upgradeable to

8 GB

4. Hard Disk Drive : 80 GB SATA II 3.0 GB/s 7200 rpm drive

5. Storage Controller : Integrated 4 channel Serial ATA controller with

RAID 0, 1, 5 and combination of 1&0

functionality.

: Professional 3 D Graphic card NVIDIA FX 550 or 6. Graphic Card

ATI FireGL V 3 300 PCI Express (128 MB)

7. Keyboard

8. Mouse

: USB P3-2 Standard Keyboard
: USB 2-Button Optical Scroll Mouse
: 4 PCI/PCI Express including 1 PCI Express x 16
: Total 4 Bays (2 internal, 2 external) 9. PCI Slots

10. Bays

11. Ports : 6 USB 2.0, 1 standard serial port, RJ-45, audio in,

audio out, mic in

12. Cabinet : Mini tower

12. Cabinet : Mini tower

13. Optical Drive : Combo CD RW/DVD-ROM Drive

14. Networking features : Integrated 10/100/1000

15. Operating System : Microsoft Windows XP Professional (64-bit)

16. OS Certifications : Windows XP Logo and Red Hat or Suse Linux

17. Application Certification: At least four ISV certifications for Applications

from the following categories (Minimum one ISV certification from each category) as per lists

enclosed at Annexure `A.

(a) Digital Content Creation(DCC)

- (b) Electronic Design Automation (EDA)
- (c) Mechanical Computer Aided Design (MCAD).

The Certification should be listed on the website of Independent Software Vendor(ISV). The Hardcopy of same shall be submitted with the technical bid.

18. Safety Certification : FCC for EMI and UL for Safety

19. Power Supply : 230V +/- 10% single phase, 50 Hz AC

20. Power Management : ACPI (Advanced Configuration and Power Management

Interface)

21. Bundle Software : System Health monitoring Tool available with ${\tt H/W}$

box.

22. Security : Integrated panel lock.or pad lock

(E) WORKSTATION INTEL CORE 2 DUO E 6600 PROCESSOR based

Workstation Intel Core 2 Duo E 6600 Processor for Computer Aided Design & GIS Application.

1. CPU : Intel Core 2 Duo E 6600 processor (2.4 GHz/4MB L2

cache, 1066 MHz FSB)

2. Chip set and Motherboard: Intel 975X chipset on Intel/OEM Motherboard

: 4 GB (4x2GB) DDR-2 ECC (667 MHz) upgradeable to 8

GB

4. Hard Disk Drive : 2x 73 GB SAS 15 K rpm drive 5. Storage Controller : SAS Controller with RAID card 0,1 6. Graphic Card : NVIDIA Quadro FX3500 PCI Express (256 MB)

7. Keyboard : USB Standard Keyboard

: USB 2-Button Optical Scroll Mouse 8. Mouse

9. PCI Slots : 5 PCI/PCI Express including 1 PCI Express X 16 for

Graphics.

10. Bays

: Total 4 Bays (2 internal, 2 external): 8 USB 2.0, 1 standard serial port, parallel port, 11. Ports

RJ-45, audio in, audio out, mic in

12. Cabinet 13. Optical Drive : Mini tower

: 16x DVD Writer Drive

14. Networking features : Integrated 10/100/1000
15. Operating System : Microsoft Windows XP Professional (64-bit)
16. OS Certifications : Windows XP Logo and Red Hat or Suse Linux
17. Application : At least four ISV certifications for Appli

17. Application : At least four ISV certifications for Applications Certification from the following categories (Minimum one ISV

certification from each category) as per lists

enclosed at Annexure `A'

(a) Digital Content Creation(DCC)

(b) Electronic Design Automation (EDA)

(c) Mechanical Computer Aided Design (MCAD) .

The Certification should be listed on the website of Independent Software Vendor (ISV). The Hardcopy of same shall be submitted with the technical bid.

18. Safety Certification : FCC for EMI and UL for Safety

19. Power Supply : 230V +/- 10% single phase, 50 Hz AC

20. Power Management : ACPI (Advanced Configuration and Power Management

Interface)

21. Bundle Software : System Health monitoring Tool available with H/W box.

22. Security : Integrated panel lock or pad lock

(F) TFT MONITOR FOR HIGH RESOLUTION GRAPHICS, 48.25 cm.

Type : Active matrix, thin film transistor (TFT)

Viewable Image Area (diagonal): 48.25 cm

Viewing Angle : 170 degrees horizontal/170 degrees vertical (10:1

minimum contrast ratio)

 $\begin{array}{lll} \text{Brightness} & : 250 \text{ cd/m2} \\ \text{Contrast Ratio} & : 1000:1 \\ \text{Pixel Pitch} & : 0.294 \text{ mm} \\ \end{array}$

Color Depth Support : 16.7 million colors

Signal Input : VGA, DVI-I

G) TFT MONITOR FOR HIGH RESOLUTION GRAPHICS, 51cm

Type : Active matrix, thin film transistor (TFT)

Viewable Image Area (diagonal): 51cm

Viewing Angle : Up to 170degree H/170 degree V

Brightness : 250 cd/m2Contrast Ratio : 400:1Pixel Pitch : 0.255 mm

Color Depth Support : 16.7 million colors

Signal Input : VGA, DVI-I

H) TFT MONITOR FOR HIGH RESOLUTION GRAPHICS, 58.4cm

Type : Active matrix, thin film transistor (TFT)

Viewable Image Area (diagonal): 58.4cm

Viewing Angle (typical) : 170 degrees horizontal/170 degrees vertical (10:1

minimum contrast ratio)

Brightness : 250 cd/m2Contrast Ratio : 500:1Pixel Pitch : 0.258 mm

Color Depth Support : 16.7 million colors

Signal Input : VGA, DVI-I

I) ANNEXURE `A'

LIST OF SOFTWARE APPLICATION FOR WORKSTATION CERTIFICATION

(a) DIGITAL CONTENT CREATION (DCC)

- 1. Adobe After Effects, Premiere, Photoshop, Illustrator, Encore DVD, Live Motion
- 2. Alias Maya Unlimited, Maya Complete, Studio Tools, Portfolio Wall
- 3. Avid Adrenaline, Mojo, Nitris, Media Composer, Symphony, Xpress, Xpress DV, Xpress Studio, Avid (DS, Avid DS) HD.
- 4. Discreet 3dsmax, combustion, cleaner XL
- 5. Metrox Video Products Group InfonetTV, RT.X100, DigiSuite DTV MAX, DigiSuite LE, DigiSuite LX

(b) ELECTRONIC DESIGN AUTOMATION (EDA)

- 1. Cadence Allegro, Assura, NC-SIM, NC-Verilog, Qplace, Spectre, SPECCTRA, Virtuoso
- 2. Mentor Graphic Boardstation, Caliber, HDL, ICX, ModelSim,
- 3. Synopsys Galaxy Design Platform-Design Compiler, JupiterXT, Floorplan Compiler, Physical Compiler, Astro, Star-RCXT, Hercules and Proteus
- 4. Magma Automation
- (c) GEOGRAPHIC INFORMATION SYSTEMS (GIS)
 - 1. ERDAS Imagine
 - 2. ESRI Arclnfo and Arc View
- (d) MECHANICAL COMPUTER AIDED DESIGN (MCAD)

1. Ansys : ANSYS, ANSYS Workbench, ANSYS DesignSpace

2. Bentley : Microsystems Microstation

3. Dassault Systemes: CATIA, DELMIA, ENOVIA, Smarteam, ACIS

4. UGS : UG NX, I-ideas NX, Solid Edge, NX Nastran, Femap,

Parasolid, Teamcenter Visualization,

Teamcenter Manufacturing, Teamcenter Community

5. PTC : Pro/ENGINEER WILDFIRE, Pro/MECHANICA, CADDS 5i

(e) MECHANICAL COMPUTER AIDED ENGINEERING (MCAE)

1. ABAQUS : ABAQUS Std/Exp

2. ACUSIM : AcuSolve

3. ADINA : R&D Adina, ADINA user interface

4. Altair Engineering : HyperMesh, Optistruct

5. ANSYS : ICEM-CFD; ANSYS user interface,

ANSYS, CFX-5, TASCflow

6. Computational Engineering International : EnSight7. Fluent : FLUENT

8. Livermore Software Technology Corp. : LS-PrePost, LS-DYNA.

Items of workstations

Specification: As per detailed specifications.

Add on items for workstations

Specification: As per detailed specifications.

In lieu of Items for Operating Systems for workstations

Specification: As per detailed specifications.

In lieu of items for Hard Drives for workstations

Specification: As per detailed specifications.

In lieu of items for Graphic Cards for workstations

Specification : As per detailed specification.