Ref. No.01/Stores (DO)/R.D./Proprietary/2013-14/FSC  

Dated: 2nd July 2013

Subject: Purchase of RIS & PACS Enhancement for the department of Radio-Diagnosis at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

*****

The Institute is in the process to purchase RIS & PACS Enhancement for the department of Radio-diagnosis at AIIMS, New Delhi-29 from M/s.Siemens Ltd., New Delhi-02 on proprietary basis. The proposal submitted by M/s.Siemens Ltd., New Delhi-02 and PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference No.01/Stores(Do)/R.D./Proprietary/2013-14/FSC. The comments should be received by office of Stores Officer (DO), Store Section, Animal House Building, Near Biotechnology Building at AIIMS on or before 25.07.2013 upto 12.30 p.m., failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

STORES OFFICER (DO)

Encl: Related documents enclosed.
PROPRIETARY CERTIFICATE

This is to certify that following Medical Imaging and Image Management Equipments
1.Somatom Definition Flash CT,
2.syngo.via advance visualization 3D server client customized HW&SW,
3.Syngo Workflow MLR RIS customized HW &SW,
4.Syngo XS Reporting setup and Archive Storage
5.Luminos dRF Digital Fluroscopy
6.Somatom S40 Ct
7.SOmatom As+ CT

are installed in the Main Radiodiagnosis Department at AIIMS New Delhi by Siemens Ltd and integrated in the LAN Network alongwith Reporting Workstations.

The Upgradation of syngo XS Image management and Archiving ,syngo.via for advance visualization is also a Proprietor HW and Sw Solution for Integration to the Workflow of above modalities alongwith the other Digital Equipments in the Department.

All the part of these Siemens equipment is proprietry and cannot be procured from third party.
Only HW of Workstations.Storage can be Procured from OEM HW vendor but the Software Integration on these HW can only be offered by us.

Yours faithfully
Siemens Ltd.

Ajit Sigh Rana
Chief Manager-Commercial

Vivek Verma
Chief Manager-Marketing

CC: The Head ,Department of Radiodiagnosis
1. Item/Type/Model No. required along with specification

2. If the item a spare part attachment or accessory for existing equipment.

3. Name of the manufacturers / Supplier of the item proposed by the indenter.

4. Are they sole manufacturer/sole distributors of the item.

5. If there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged.

6. What were the efforts made to locate alternative source of supply of use other substitutes.

7. Why open/limited tender can’t be resorted to, for locating alternating source.

8. Are the proprietary items certifying that the rates are reasonable or not.

9. Any other justification for procuring item from single source.

(Counter Signed)

(Head of the Department)

1/17/13

Signature of Indenter

(Demanding Officer)

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known/ the specific brand proposed was advantages in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(Strike out whichever is not applicable)
SUB: Enhancement of syno Workflow pacs HW and SW in Deptt of Main radiodiagnosis

Dear Sir,

We thank you for giving us the opportunity to offer the upgradeation of existing PACS Database & syno Application Server, Storage and RIS Worklist and Browser with advance integrated solution. Syno workflow for integration of additional modalities for Enhanced usage for Image Reading and RIS Reporting for the Department of Radio-diagnosis.

The existing Client Hardware Workstations in the Department shall have access to the existing Syno via servers with the integration of the Proposed PACS HW & SW for integrated Workflow.

We are pleased to submit our offer covering upgradeation in the Existing Integrated Setup for Advance Reporting:

<table>
<thead>
<tr>
<th>Offer Part</th>
<th>Covering</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Software (Proprietary) :</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>syno.plaza Concurrent User system</td>
<td>15</td>
<td>US $ 3,48,000.</td>
</tr>
<tr>
<td>B</td>
<td>Syno plaza Web Server and interface for 10 concurrent users</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Syno workflow DICOM Modality Worklist</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Syno workflow RIS workflow Browser</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>E.</td>
<td>Syno via advance user for additional user access</td>
<td>3</td>
<td></td>
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<tr>
<td>Customized Hardware</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>F.</td>
<td>SYNGO Xs upg to syno.plaza -Cluster Server Hardware</td>
<td>1</td>
<td>US $ 95,000.</td>
</tr>
<tr>
<td>H.</td>
<td>Workplace HW for Workflow Browser RIS</td>
<td>10</td>
<td>8,00,000</td>
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<tr>
<td>I</td>
<td>Workplaces HW for DICOn Modality Worklist</td>
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<td>8,00,000</td>
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<td>J</td>
<td>Network Switches &amp; Connections</td>
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<td>24,50,000</td>
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<td>K. OPTIONAL</td>
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<tr>
<td>1.</td>
<td>RAID Storage (locally from Fujitsu)</td>
<td>20 TB</td>
<td>INR 17,00,000</td>
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<tr>
<td>2.</td>
<td>Hw for Reporting Workstation with 2MP Clinical Monitor</td>
<td>3</td>
<td>INR 24,00,000</td>
</tr>
</tbody>
</table>

Price quoted in US$ are on CIP New Delhi Basis.
Price quoted in INR are on FOR – Destination Basis.
The offered solutions shall be covered under warranty for a period of 5 years.
Please note that items G – I could be procured locally from different vendors.

Siemens Ltd.
Management: Dr. Armin Bruck
Healthcare Sector, Management Richard Guest
4A, LP Estate,
Ring Road,
New Delhi 110002

Other Office: 201, Ground Floor, New Delhi House, 1st Floor, New Delhi House, Lodhi Road, New Delhi 110003
Tel.: +91 11 4296 5000
Fax: +91 11 2332 6147
www.siemens.co.in
SIEMENS

We hope you would find the offered solution suitable to meet with your requirement. In case you need any other information / clarification, please do let us know.

Assuring our of our best attention, we remain,

Yours faithfully
SIEMENS LTD.

Harash Malhotra

Vivek Kumar Verma
The Director
All India Institute of Medical Sciences
Ansari Nagar
NEW DELHI 110029

Techno Commercial Quote
19X-666-1-A

Syngo plaza -15 concurrent user system
Syngo plaza –web client 10user system

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# SIEMENS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Item Price</th>
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<td><strong>syngo.plaza-15 concurrent user system</strong></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>1. <em>syngo.plaza</em>-Customised Software</td>
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<tr>
<td></td>
<td>2. <em>syngo.plaza</em> - PACS Modules</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. <em>syngo.plaza</em> VA20 SW Media Kit</td>
<td>12</td>
<td></td>
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<tr>
<td></td>
<td>4. <em>syngo Server SW, 10kppp</em></td>
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<td>5. <em>syngo.plaza</em> Client License</td>
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<td>6. <em>syngo.plaza</em> 5 Web Client Lic.</td>
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<td>7. DICOM SR Editing</td>
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<td></td>
<td>8. License HL7</td>
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<td>A.2</td>
<td><strong>SYNGO.VIA ADVANCE USER SOFTWARE</strong></td>
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**TOTAL CIP VALUE - NEW DELHI**

US$ 3,48,000.00

**Conditions:**

- The prices are CIP - New Delhi Airport. All duties and applicable levies shall be borne by the institute.
- Warranty: The equipment offered is covered by warranty under proper use for faulty material or workmanship for 60 months from date of installation or 65 months from date of delivery, whichever is earlier. Consumables are not covered under warranty.
- Payment: 100% through irrevocable letter of credit in favour of M/s Siemens AG, Germany.
- Price Validity: 2 weeks from the date of this offer.

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[Signatures and dates]
A.

- Innovative, intuitive UI enables fast reading (SmartSelect, Corner Menus, Findings Navigator)
- Fast and easy navigation and identification of studies and series thanks to the Token View functionality
- No-click integration with syngo.via
- Patient Jacket, the all-in-one browser solution for loaded images
- Easy creation of display layouts on series level
- Cross Reference: simultaneous marking of a specific spatial location in different series of a study
- Spine labeling: labeling a vertebra in a reference image
- Measuring the Cardiac Thoracic Ratio (CTR)
- Storing, displaying, and archiving of DICOM conform MPEG-2 format
- Digital Subtraction Angiography (DSA)
- Display functions for nuclear-medical environment (NUC color LUT, auto-windowing mechanisms)
- Viewing and storing DICOM Structured Reports
- Working with DICOM Grayscale Softcopy Presentation States
- Query Spanning - simultaneously querying several providers
- Web-based access to images and reports via intranet and internet
- Creating patient media (CD/DVD) at any syngo.plaza workplace
- JPEG compression
- JPEG 2000 compression
- DICOM Print functionality
- Archiving using a Network Attached Storage (NAS)
- Citrix support: allows for operating syngo.plaza reporting clients in a CITRIX XenApp 6.0 environment
- DICOM Storage and Query/Retrieve of DICOM RT Plan, RT Structure Set, RT Dose and RT Treatment Record. These DICOM RT objects normally do not include any image information and can thus not be displayed with the Viewer.
- Advanced Autorouting allowing automatic, rule-based distribution of images inside and outside the institution

Reporting Clients on latest advance platform integration to existing RIS and advance user
Processing and Reporting

3D Features:
- Creating multiplanar reconstructions:
  - standard views, oblique, curved, and cross-curved reconstructions
- Various projection techniques: MIP, MiniP, AxiP, Gray Scale, Shaded Surface Rendering
- Zooming, panning, windowing 3D views
- User-defined window level presets
- Measuring distances and angles, adding annotations
- Capturing single views or all displayed views
- Saving MPR series
- Saving the rotation of a 3D view as movie
- Live images for storing and distributing the 3D image data

3.
syngo.plaza VA20 SW Media Kit

4.
s.plaza Server SW, 10kpyx12
5. syngo.plaza Client License for 15 Users
   syngo.plaza 5 Web Client Lic x2 for 10 web users.

6. Embedded 3D Basic, per Client for 15 concurrent users

7. DICOM SR Editing for 5 clients
   - Creating new DICOM Structured Reports can be started from the Patient List and from the Viewer
   - Inserting and changing text
   - Inserting, viewing, processing, copying referenced images and graphics
   - Printing DICOM Structured Reports
   - Exporting as DICOM Structured Reports PDF, HTML, XML
   - Sending via E-Mail as DICOM Structured Reports PDF, HTML, XML (using the E-Mail client installed on the workplace)
   - Selecting and managing codes
   - Saving DICOM Structured Reports
   - Verifying DICOM Structured Reports
   - Configuration of header information, style sheets and its mapping, code sets

8. License HL7 integration to RIS

B. Syngo Workflow RIS Extension

1. VA36A upgrade
   Extension of existing Syngo Workflow RIS Workflow Browser
   - Register patients and administer patient data
   - Plan, schedule, perform, and document examinations
   - Dictate, write, and validate reports
   - Statistics
   - Administer material, analog archive and transportation
   - Clinical administration (e.g. user administration)
   - Configure the working environment

2. Extension of existing Syngo Workflow RIS DICOM Worklist
   to connect modalities to syngo Workflow for transmitting planned examinations including the associated patient. syngo Workflow is Service Class Provider for the DICOM Modality Worklist.

A.2. syngo.via advance user software concurrent – 3No.s

A.2. syngo.via One Advanced User License of the syngo.via client server solution for multi-modality image reading. It provides 2D, 3D, 4D image reading capabilities at almost every workplace for various modalities (e.g. CT, MR, PET/CT, CR, XA image types).

The syngo.via client runs on standard Windows computers in the network and integrates into radiologist’s reading workplace (RIS, PACS) for efficient image reading based on a wide range of imaging applications (advanced visualization applications) for different clinical areas. These applications are available as additional options for...
The syngo.via licensing model is flexible and tailored to the number of concurrent users (users working at the same time). The service support for syngo.via requires the provision of an administrator with dedicated tasks and a minimum broadband Internet connection bandwidth.

Brief description
syngo.via provides one graphical user interface to prepare and read images from various modalities. Supported images types are:
- Computed Tomography images
- Magnetic Resonance images
- PET Images
- Computed Radiography Images
- Digital X-Ray Images
- X-Ray Angiographic Images
- X-Ray Radio-Fluoroscopic Images
- Ultrasound 2D Images
- Secondary Capture Images
- Encapsulated PDFs

Standard reading functions, such as:
- Browser functionality for fast patient and data access
- Case navigator for easy and fast case navigation
- Automatic image Processing
- Automatic Loading and displaying of images in user specific layouts, Multiple layouts for 2D, 3D diagnosis
- Ad Hoc workflow change for flexible Application handling
- Scrolling through images (e.g. movie mode, fast mouse scrolling, synchronized scrolling)
- Mirror, rotate, invert, windowing, pan/zoom, annotations, distance and angle measurement, pixel lens, ROI / VOI evaluation
- Findings navigator - create, collect, navigate and present findings quickly
- Correlated cursor
- Series synchronization for pan/zoom, windowing, LUT, scrolling
- Locked navigation of different modality types (e.g. MR / CT)
- User-defined context menu
- Snapshot images as secondary capture

Integrated 3D tools, such as:
- All reformats immediately available: VRT, MIP, MIP thin, MinIP, MPR thin / thick, interactive slice thickness change
- VRT Punch, VRT Gallery
- Clip plane and clip box
- Bone and Table removal for fast segmentation
- MPR/MPR Fusion and registration
- Parallel and radial range
- 2D & 3D reference lines, 3D Reference Point
- Movie export

Applications for dedicated clinical areas
Beside standard 2D/3D capabilities, the following advanced functionalities for dedicated clinical areas are part of syngo.via.
These applications are medical products in their own rights and necessary country specific approvals are not yet available (e.g. 510k, CE Mark).
syngo CT Coronary
Review Marker, Heart Isolation, Movie (Beating Heart), Plaque Visualization, Manual Coronary Tracking (> 2 click centerline), Cardiac Planes, Curved & Cross-Section MPR, Context specific Reporting

CT Vascular
Review Marker, Manual Vessel Tracking (> 2 click centerline), Curved & Cross Sectional MPR, Integrated Reporting Plaque Visualization, Context specific Reporting
SIEMENS

PET&CT Oncology
- Navigation between segments, Timepoint comparison (two timepoints),
- Image fusion and Registration, RECIST/WHO measurement, PET and MR visualization, Basic PET evaluation,
- Image fusion, Registration, 3D overview image,
- Context specific reporting
- syngo.CT Dual Energy

The syngo.CT Dual Energy offers a viewer that displays a fused image for initial diagnosis. It includes Optimum Contrast to calculate automatically contrast-optimized images as well as the possibility to calculate monoenergetic images for a range of 40 - 190 keV. The additional, optional Dual Energy applications utilize syngo Dual Energy's two data sets even further: the material-specific difference in attenuation enables an easy classification of the elementary chemical composition of the scanned tissue. Works only with Dual Energy images from SOMATOM Definition and Definition Flash.

MR Reading
- MR Reading workflow
- Follow-up support: Follow-up layout for easy comparison between two timepoints.
- Rescan handling: Repeated scans are collected in one stack that provides an overview layout to select the best rescan for reading.
- Workflow customization and creation: MR Reading allows the user to generate new, customized workflows.
- Context specific Reporting

Workflow Automation
- Triggered by PACS or modality:
  - Disease-specific workflow mapping can also be done based on image information (modality and/or study description)
- Triggered by RIS:
  - syngo via requests the DICOM Modality Worklist (DMWL) from the connected RIS to enable automatic disease-specific workflow mapping and prefetching of examinations from PACS for follow-up reading.

Context specific reporting:
- Context specific reports can be derived from different clinical applications (structured reporting).
- Findings collected in the Findings Navigator can be transferred to context specific reporting application and can then be stored as DICOM Structured Reports.
- The reports created with syngo via are stored as encapsulated PDF DICOM objects. Additionally the report can be saved in the file system as a PDF file. The stored PDF report can be viewed and printed by the clinical user.
- With RIS integration package and an additional license, the report content can be transferred to the RIS via HL7.
- Query/retrieve from DICOM nodes
- Export images and Movie and creating patient media
- Reporting (DICOM print) or postscript printing functionality

Scope of delivery:
- DVDs with syngo via software
  (software license for syngo via client user)
**SIEMENS**

<table>
<thead>
<tr>
<th>Syngo Workflow RIS Extension for additional 10 modalities</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced visualization of details in calendar view</td>
<td>10</td>
</tr>
<tr>
<td>Support of standard library for card reader integration (new egK card reader)</td>
<td>10</td>
</tr>
<tr>
<td>Support Microsoft Office 2010</td>
<td>5</td>
</tr>
</tbody>
</table>

**B.2 Extension of existing Syngo Workflow RIS DICOM Worklist**

To connect modalities to syngo Workflow for transmitting planned examinations including the associated patient. Syngo Workflow is Service Class Provider for the DICOM Modality Worklist.

---

Handwritten notes: "Robert 15/1 11/5/11" and "Blindasi 11/5/13"
SIEMENS

The Director
All India Institute of Medical Sciences
Ansari Nagar
NEW DELHI 110029

Techno Commercial Quote
19X-666-1-B

syngo.plaza – Cluster and Domain Hardware

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[Signatures and dates]
## SIEMENS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
<th>Total Item Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>synco.plaza – Server and Domain Hardware</strong></td>
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<tr>
<td>1</td>
<td>Synco plaza Server HWx2 with 5TB SAN Fibre Channel Interface</td>
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<tr>
<td>2</td>
<td>Software Lic. Ext. Server Hardware</td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>HP Care Pack. 5y 13hx5d HW Support</td>
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<td></td>
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<tr>
<td></td>
<td><strong>TOTAL CIP VALUE – NEW DELHI</strong></td>
<td></td>
<td><strong>US$ 95,000</strong></td>
</tr>
</tbody>
</table>

### Conditions:

- The prices are CIP - New Delhi Airport. All duties and applicable levies shall be borne by the institute.
- Warranty: The equipment offered is covered by warranty under proper use for faulty material or workmanship for 60 months from date of installation or 63 months from date of delivery, whichever is earlier. Consumables are not covered under warranty.
- Payment: 100% through confirmed, irrevocable letter of credit in favour of M/s Siemens AG, Germany.
- Price Validity: 2 weeks from the date of this offer.
## Workstations for DICOM Modality Worklist and Workflow Browser

<table>
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<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>i. CPU Box with Monitor: Fujitsu or Equiv</td>
<td>10</td>
<td>Rs. 800,000.-</td>
</tr>
<tr>
<td>ii. CPU Box with Monitor</td>
<td>10</td>
<td></td>
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<tr>
<td>iv. Network Switches &amp; Connections</td>
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<tr>
<td>Total</td>
<td>4</td>
<td>Rs. 2,450,000.-</td>
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</table>

**TOTAL FOR PRICE**

**Conditions:**
- The prices are quoted on FOR Basis.
- Warranty: The equipment offered is covered by warranty under proper use for faulty material or workmanship for 60 months from date of installation or 63 months from date of delivery, whichever is earlier. Consumables are not covered under warranty.
- Payment: 100% through confirmed, irrevocable letter of credit in favour of M/s Siemens AG, Germany.
- Price Validity: 2 weeks from the date of this offer.

### OPTIONAL ITEMS

| 1. RAID Storage (locally from Fujitsu)     | 20 TB | INR 17,00,000 |
| 2. Hw for Reporting Workstation with 2MP Clinical Monitor | 3     | INR 24,00,000 |

**Conditions:**
- The prices are quoted on FOR Basis.
- Warranty: The equipment offered is covered by warranty under proper use for faulty material or workmanship for 60 months from date of installation or 63 months from date of delivery, whichever is earlier. Consumables are not covered under warranty.
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