

**Financial Evaluation "DIGITAL RADIOGRAPHY SYSTEM"**  
**Provision of Radiological Equipment at 120 Bedded Emergency Block**  
**Sheikh Zayed Medical College/Hospital, Rahim Yar Khan**

Participating Firms = 3

M/s Technology Links	M/s Medequips SMC	M/s SIEMENS
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Brand & Other Information

<b>Make</b>	SHIMADZU	TOSHIBA (CANON GROUP)	SIEMENS
<b>Model</b>	RADspeed Pro	RAD REX-1 DRAD-3000E	Multix Fusion Max
<b>Country of Origin</b>	SHIMADZU Asia Pacific Singapur	Japan	Germany
<b>Country of Manufacturing</b>	Japan	Japan	Germany
<b>Country of Manufacturer</b>	Japan	Japan	Germany
<b>Certification: FDA/CE/MHLW</b>	FDA/ CE	FDA & MHLW	CE
<b>Warranty (5 Years)</b>	5 years	5 years	5 Years.
<b>CDR</b>	attached	attached	Attached

<b>1</b>	<b>X-Ray Generator:</b>			
	<b>b-Motorized Multileaf Collimator:</b>	=220000/- USD	=279900/- USD	=294000 USD
	<b>c-Patient Table:</b>			
	<b>d-Flat Panel Detector (cable less):</b>	Rs=2,54,32,000/-	Rs=32356440/-	Rs=33986400/-
	<b>e-X-Ray Tube:</b>			
	<b>f-Chest Stand:</b>	=25.432 M	=32.356 M	=33.986
	<b>g-Imaging System:</b>			

<b>2</b>	<b>ACCESSORIES:</b>			
a	Lead glass size 1.5 mm or better: size 80 x 100 cm.			
b	Compression belt			
c	Lead Aprons 0.5 mm			
d	Thyroid shield: 0.5 mm pb			
e	Lead goggle and gonadal shields			
f	DICOM 3.0 compliant Grayscale			
g	Dry LASER Printer with 3 online sizes			
h	1000 x14x17" Dry LASER films			

<b>3</b>	<b>UPS</b>			
a	UPS 100 KVA. 20 minutes backup of whole system.			

**4 Manufacture WARRANTY / TERMS & CONDITIONS:**

<b>5</b>	<b>TRAINING:</b>			
a	01 week local training for two technicians.			
b	02 visit of application specialist			
c	Visit of the two Consultants in factory & hospital			

<b>6</b>	<b>SITE PREPARATION/INSTALLATION:</b>			
	Civil work (Building construction as per the drawing)	= 14-PSF USD Rs=1619/- PSF	=35-PSF USD Rs=4046/-	=39-PSF USD

13/4/2010

*[Signatures]*

**Financial Evaluation of "CT SCAN 128 Slice"  
Provision of Radiological Equipment at 120 Bedded Emergency Block  
Sheikh Zayed Medical College/Hospital, Rahim Yar Khan**

Participating Firms = 4		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS
<b>Brand &amp; Other information</b>	<b>Make</b>	GE Healthcare	TOSHIBA	SIEMENS
	<b>Model</b>	Revolution Evo.	Prime Aquilion	SOMATON Defination AS
	<b>Country of Origin</b>	Japan	Japan	Germany
	<b>Country of Manufacturing</b>	Japan	Japan	USA/Korea/China
	<b>Country of Manufacturer</b>	USA	Japan	Germany
	<b>Certification: FDA/CE/MHLW</b>	FDA/CE	FDA/MHLW	FDA
	<b>Warranty</b>	5 years	5 years	5 years
	<b>CDR</b>	attached	attached	attached
<b>1</b>	<b>GANTRY</b>	$= 679000/- USD$ $Rs = 78492400/-$ $= 78.492 M$	$= 624500/- USD$ $Rs = 72134400/-$ $= 72.134 M$	$= 109600/- USD$ $Rs = 1,26,79760/-$ $= 12.679 M$
	<b>TUBE:</b>			
	<b>GENERATOR:</b>			
	<b>DETECTORS:</b>			
	<b>COUCH:</b>			
	<b>CONSOLE COMPUTER:</b>			
<b>2 SOFTWARE:</b>				According to clarification from Siemens Co., due to clerical mistake, Last digit "0" is missing. Therefore above rate may be considered as
a	All the latest whole body & cardio-vascular software			
B-	USER INTERFACE SOFTWARE True isotropic volume acquisition			
c	Prospective and retrospective ECG gated acquisition			
d	Variable Delay algorithm(fixed percent delay (FPD) & fixed offset delay FOD)			
e	Automated contrast media bolus tracking software.			$= 1096000/- USD$
f	3D Reconstruction Display Original Company Software.			$Rs = 126697,600/-$ $= 126.697$
g	Maximum and minimum intensity projections			
h	Multi-planer and curved planer reconstruction			
<b>3 CT ANGIOGRAPHY Software:</b>				
a	Artifact reduction algorithm.			
B-	Iterative Dose Reduction Software.			
c	Bone removal software.			
d	Mattel artifact reduction software.			

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Participating Firms = 4

M/s  
Shirazi TradingM/s  
Medequips SMCM/s  
SIEMENS**4 WORK-STATION Software:**

a	Original Licensed software:			
b	Window XP/7/8 or Linux			
c	MS Office 2013			
d	Norton / equivalent antivirus (current and upgradeable for at least for the time of warranty)			
e	DVD RW (super-drive will be preferred)			
f	DICOM-3 viewer with universal PC display capability (licensed)			

**5 WORKSTATION SOFTWARE:**

a	(original with certificate) with thin client, server with 3 concurrent users			
b	Software up-gradation of all existing applications for at least next 05 years			
c	Following software will be provided at workstation of the same origin as are being used in USA/EU & JAPAN.			
d	a. UPS 3 KVA (x 03), Branded, dry battery capable of providing 20 minutes of back-up for workstations (MG, APC, MC, Chloride, Riello, Emerson). The dry batteries will be included in company warranty			
e	b. Heavy duty Laser black and white printer (qty: 3) A4 /letter size 2400 dpi or higher, two paper trays for A4/letter size media, ( HP, Lexmark, Xerox, CANNON) network-ready DICOM			
f	c. DICOM 3 ready (multi-vendor and multimodality compatible for send, receive, achieve, retrieve and print, on main console and workstations)			

**6 UPGRADE-ABILITY:****7 ACCESSORIES:**

a	DICOM 3 ready dry laser camera / imager, Multi-size up to 14 x17 in			
b	(Agfa, Fuji, Kodak/Carestream, Konica) for black and white printing on films including 5000 films			
c	On-line sine wave UPS for whole CT suite, with a minimum back-up time of 30 minute on full load including air-conditioning system			
d	Air conditioners Two Ton each for UPS room office and waiting area lights/fans etc.			

**8 Protection devices:**

a	Lead aprons with hangers.			
b	Lead-gloves			
c	Lead goggles			
d	Thyroid Shields all 0.5 mm lead equivalent European & Japanese.			

Participating Firms = 4		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS
e	Lead glass for control room , 0.5 mm lead equivalent.			
f	Standard set of Phantoms for calibration of CT			
g	Pediatric scanning package - software and hardware original.			
h	Cardiac defibrillator.			
i	Dedicated Cardiac Monitor for synchronize with cardiac scan.			
j	Pulse oximeter.			
k	ECG machine, multichannel (three channels)			
l	Cardiac Resuscitation trolley completely equipped with all necessary items.			

**9 Table Accessories**

a	Table pads			
b	Arms rest			
c	Patient restraint kit			
d	IV pole			
e	infant cradle			
f	flat head holder			
g	Ceiling mounted hand holder patient (original accessories from the vendor)			
h	Digital Transcription system for reporting ( hand held units - x 03, and Complete steno-type desktops unit (x 02)			

**10 Manufacture WARRANTY / TERMS & CONDITIONS:**

**11 TRAINING:**

a	01 week local training for four technicians.			
b	01 visit of application specialist before commissioning and 01 visit after proper working of machine.			
c	Visit of the two Consultants in the manufacturing factory and hospital			

**12 SITE PREPARATION/INSTALLATION:**

a	Civil work (Building construction as per required drawing)	=46.8 PSF USD RS=5410/-	35- PSF USD RS=4046/-	39- PSF USD RS=4509/-
b	Complete Site renovation of CT, Console and UPS room, including lead shielding of the CT room and doors, Air-Conditioning, False ceiling, painting, Antistatic flooring, Electrical DB, Earthing and Power cable from Main Transformer/Hospital. LT Panel Will be the responsibility of the supplier			

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Participating Firms = 4		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS
c	The installation will be a turnkey project and any modification in the existing site will be the responsibility of the firm			
d	The firm will be responsible for complete interface free installation keeping in view the requirement and recommendation of manufacturers and its surroundings to ensure artifacts examinations/procedures			

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**Financial Evaluation of "ANGIOGRAPHY"**  
**Provision of Radiological Equipment at 120 Bedded Emergency Block**  
**Sheikh Zayed Medical College/Hospital, Rahim Yar Khan**

*MONITOR*

Participating Firms = 3		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS Healthcare
<b>Brand &amp; Other Information</b>	<b>Make</b>	GE-Healthcare	TOSHIBA	SIEMENS
	<b>Model</b>	Innova IGS 630	INFX-800V Multi Axis Biplane	Artis Zee
	<b>Country of Origin</b>	France	Japan	Germany
	<b>Country of Manufacturing</b>	France	Japan	Germany/USA/UK
	<b>Country of Manufacturer</b>	USA	Japan	Germany
	<b>Certification: FDA/CE/MHLW</b>	CE/ FDA	FDA/ MHLW	FDA/ CE
	<b>Warranty</b>	5 Years	5 Years	5 years
	<b>CDR</b>	Attached	Attached	attached

<b>Positioning ARMs:</b>	<i>=949900/- USD</i>	<i>=914500 USD</i>	<i>=994000/- USD</i>
<b>Rotation speed:</b>			
<b>PATIENT SUPPORT / TABLE:</b>			
<b>Accessories:</b>		<i>FOR : Addition of 5% on C&amp;F Price</i>	
<b>Arm cradles (pair), Unilateral armrest, infusion bottle holder, instrument tray.</b>	<i>@ 115.60/-</i>	<i>@ = 115.60</i>	<i>@ 115.60</i>
<b>X-Ray Generator</b>		<i><del>Rs=10,56,84</del></i>	
<b>X-RAY Tubes:</b>	<i>=10,98,88,440/-</i>	<i>Rs=10,56,58,400/-</i>	<i>Rs=11,49,06,400/-</i>
<b>FLAT DETECTORS:</b>			
<b>CD RECORDER:</b>	<i>=109.808 M</i>	<i>=105.658 M</i>	<i>=114.906 M</i>
<b>CD drive for automatic digital image storing on CD-ROM for off-line data exchange in DICOM 3 format</b>			
<b>the system must archive the images/scenes on to the CD in background</b>			
<b>MONITORS FOR THE SYSTEM:</b>			
<b>2 ACCESSORIES:</b>			
a Surgical shadow-less light ceiling suspended			
b Ceiling suspended Lead Glass for Upper Body Radiation Protection			
c Lower body radiation protection flaps			
d 1 x Fully programmable latest model contrast medium injector			
e One Postscript level Network Laser Printer for taking image printouts on paper			
f This printer is to be connected with the main Digital imaging System. Paper for 500 prints should be delivered with the printer			
g 1000 write-able CDs should be delivered with the system			
h Lead Glass Window size 2 x 1 meter or more. Pb equivalence 2.1mm or better			

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Participating Firms = 3/4 M/s DWP didn't submitted the bid		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS Healthcare
i	6 x Pb aprons, double sided. Pb equivalence front 0.5mm; back 0.35mm			
j	6 x Thyroid shields and 6 x Pb Glasses			
k	Intercom for communication between control and exam room			
l	DICOM Laser Camera with 14-x17 inches cassette formats			
m	UPS compatible for the whole system with back-up time of 10 minutes for fluoro and cine acquisition			
n	2x film viewer for images up to 14 x 17 with variable light control and shutters			
<b>3 Optional:</b>				
a	Workstation should create visualization and fading between the live / acquired 2D fluoro image			
b	the matching 3D reconstructed image by the workstation for vessels / coil/bone			
c	should allow to overlay the colored 3D volume with regular/acquired fluoro as well as with subtracted fluoro and acquisition series on the display of the workstation			
d	this information is available in parallel to the regular or subtracted fluoro or acquisition			
e	Simultaneous display of subtracted and un-subtracted fluoroscopy images for single plane and biplane			
f	Additional display i.e., monitor per plane is to be included and these monitors are to be installed with the remaining monitors in the examination room			
g	Any other latest software available with the company should be offered as option which will not be considered as reason of rejection			
<b>4 UPS</b>				
a	UPS system, branded, dry battery capable of providing 20 minutes of back-up for Digital Angiography (MG, APC, MC, Chorde, Riello, Emerson). The dry batteries will be included in the price.			
<b>5 Manufacture WARRANTY / TERMS &amp; CONDITIONS:</b>				
a	The Manufacturer will undertake to maintain the equipment during the period of warranty which shall be for five years from the date of full functional commissioning with all specified parameter and shall cover labour and parts of all equipment supplied / stated in the contract including non-properties parts accessories transducer batteries etc.			
<b>6 TRAINING:</b>				
a	01 week local training for four technicians.			
b	01 visit of application specialist before commissioning and 01 visit after proper working of machine.			

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Participating Firms = 3/4 M/s DWP didn't submitted the bid		M/s Shirazi Trading	M/s Medequips SMC	M/s SIEMENS Healthcare
c	Visit of the two consultants in the manufacturing factory and hospital to see the working of the machine			
7	<b>SITE PREPARATION/INSTALLATION:</b>			
a	Civil work (Building construction as per required drawing)	=46.80 PSF USD	=35/- PSF USD	=39- PSF USD
b	Complete Site renovation of Angiography	Rs=5410/- PSF	Rs=4046/- PSF	
c	Console and UPS room, including lead shielding of the Angiography room and doors			
d	Air-Conditioning			
e	False ceiling, painting,			
f	Antistatic flooring			
g	Electrical DB			
h	Earthing and Power cable from Main Transformer / Hospital			
i	LT Panel Will be the responsibility of the supplier			
j	The installation will be a turnkey project and any modification in the existing site will be the responsibility of the firm			
k	The firm will be responsible for complete interface free installation keeping in view the requirement and recommendation of manufacturers and its surroundings to ensure artifacts examinations/procedures.			

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