

**Rajasthan Medical Services Corporation Limited, Jaipur**  
**Gandhi Block, SwasthyaBhawan, TilakMarg, C-Scheme, Jaipur - 302005**

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CIN:U24232RJ2011SGC035067

Website: <http://rmsc.health.rajasthan.gov.in>

No. F-8() RMSC/EPM/M-1/NIB-482/2020-21/ 110

Dated: 13.10.2020

**Rate Contract and Price Details (Revised)**

S.N.	Item	Detail
1.	Name of Equipment / Item	CATH LAB
2.	Name & Address of Firm	M/s Allengers Medical Systems Ltd., S.C.O. 212-213-214, Sector 34-A, Chandigarh,U.T.-160022 Email: <a href="mailto:govt@allengers.net">govt@allengers.net</a> , <a href="mailto:tenders@allengers.net">tenders@allengers.net</a>
3.	Bidder Status	Manufacturer
4.	Brand/ Make	Allengers
	Model	ALLENGERS PRIDE HP
5.	Packing Unit	Each
6.	R/C No. & Validity	R.C. No. 623 (Valid Up to 30.09.2022)
7.	Indicative Quantity	06
8.	<b>Rates for supply to RMSC from Suppliers</b>	
	(i) New Basic Rate (in Rs. )	30084775.00
	(ii) IGST @ 12% (in Rs. )	3610173.00
	(iii) CGST (in Rs. )	0.00
	(iv) SGST(in Rs. )	0.00
	(v) Approved Rate From Supplier To RMSC {(i)+(ii)+(iii)+(iv)} (in Rs. )	33694948.00
9.	<b>Rate For Supply to Consignee From RMSC</b>	
	(i) Basic Rate (in Rs.)	30084775.00
	(ii) RMSC Surcharge@5% On (i) (in Rs.)	1504238.75
	(iii) CGST@ 6% { On (i)+(ii)} (in Rs.)	1895340.83
	(iv) SGST@ 6% { On (i)+(ii)} (in Rs.)	1895340.83
	(v) Approved Rate for Consignee from RMSC {(i)+(ii)+(iii)+(iv)} (in Rs.)	35379695.41
10.	<b>SPECIFICATIONS FOR SINGLE PLANE CARDIAC CATHETERIZATION LAB</b>	
	<b>SNo.</b>	<b>SPECIFICATIONS</b>
		Technical Specifications of Latest sate of art, single plane cardiac catheterization lab with DSA with flat panel detector technology digital imaging system with latest image processing and interventional cardiovascular procedures, valvuplasty and vascular angiography.
	<b>1.0</b>	<b>C-Arm/G-Arm Multi –directional, floor/ceiling mounted</b>
	1.1	C arm/ G arm should be latest design, for clear free floor space with head to toe covering of the patient without repositioning the patient. It should be ceiling or floor mounted. It should be possible to position the C arm/ G arm on both side ( right or left) of patient for head to toe imaging without repositioning of the patients of 175 cm or more.
	1.2	All movements should be motorized with C-Arm angulation of minimum RAO/LAO +110deg. / -110 deg. <b>OR</b> + 105 deg. / -110 deg. <b>OR</b> + 120 deg. / -120 deg., CARN/CAUD +45 deg. At head end position. With 22 deg. /sec <b>OR</b> more(i.e. 25 deg. /secincorporated as per bidders suggestion) speed for LAO/RAO and 12 deg./sec or more speed for CARN/CAUD.
	1.3	Arm design should allow sufficient space around the table during resuscitation and defibrillations and

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	patient table can be parked away from cath lab gantry to create free space around the patient in case of emergency .
1.4	Motorized Peripheral position for peripheral and vascular intervention should be available. It should be possible to position the C-Arm on the left side as well as on the right side of the patient.
1.5	The C-arm should auto collision protection with patient, monitor and the table.
1.6	System should have facility for 30 user defined programs positions for C-arm.
<b>2.0</b>	<b>Table</b>
2.1	Floating/floor mounted with carbon fiber tabletop with easy patient transport capability.
2.2	Accessories for table should include head fixing aids , mattress, radiolucent carbon fiber arm support , catheterization arm support , drip stand , peripheral filter set.
2.3	Maximum patient weight = 120 kgs or higher with additional weight for at least 50 kgs during resuscitation.
2.4	Other Requirements :- (approximate dimensions) A. Table top size should be 2800 x 450 mm or more B. Longitudinal Travel of table top should be 1000 mm or more C. Transverse Travel of table top should be 150 mm + 150 mm ( 300 mm ) or more D. Motorized vertical travel should be 200 mm or more E. Lift speed should be 20 mm/sec or more
<b>3.0</b>	<b>X-Ray Generator</b>
3.1	Generator should be of latest technology with high frequency type with at least 100 kW output power or more.
3.2	Generator Should be at least 40 Khz frequency.
3.3	Fluoroscopy KV range to be 40-120 KVP or more
3.4	Should have ADRC for fluoroscopy. The mA range for fluoroscopy has already being mentioned in Point No 4.1
<b>4.0</b>	<b>X-Ray Tube</b>
4.1	X-Ray tube should be grid control type , having minimum of two focal spots ( small and large, 0.6 mm or less and 1.0mm or less ) with high cooling rate to ensure continuous operation capable of pulsed fluoroscopy on both focal spot, The large focus output should be 80 KW or more. The pulse Fluoroscopy should be offered with pulse rate of 10 frames/sec to 30 frames/sec. The X-Ray tube shall have fluoroscopy of 130 mA or more.
4.2	The X-Ray tube should have anode heat storage capacity of at least 3.0 MHU or more to run continuously for 6-8 hours without shutting off. Cooling system should be with oil/water cooling to ensure continuous operations. Anode heat cooling rate should be as per radiation safety norms of AERB. Automatic/ programmable spectral filtration mechanism for elimination soft radiation without any manual filter insertion. X-Ray tube with noise less operation with anode heat storage capacity to support long intervention procedures without interruption.
<b>5.0</b>	<b>Radiation protection</b>
5.1	The system should have integrated computer controlled ( Preferably automatic ) X-Ray beam filtering with copper filters of various suitable sizes as per radiation safety norms of AERB.
5.2	The system should have positioning of collimator blades radiation.
5.3	The system should have monitoring and display of X-Ray dose during the patient examination. It should be possible to create a DIOCOM based dose report for patient.
5.4	System should meet all national and international safety standards and comply with BARC & AERB guidelines.
5.5	System should offered latest radiation safety techniques.
<b>6.0</b>	<b>Digital Imaging System:</b>
6.1	A Flat panel detector with diagonal size of at least 24 cm. Pixel size not more than 200microns.
6.2	Digital System with acquisition and processing in 1024x1024 matrix at 25fps with minimum as more 12 bit digitization.

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	Reusable Invasive Blood pressure transducer system with pressure flush device system. Qty- 2 Nos.
10.0	UPS (BPE:EPX+ Series 120 KVA): Suitable online UPS with 30 min battery backup for complete Cath Lab including cine and fluoroscopy. Emergency lighting should also be on UPS all level 120 KVA or more capacity 30 min.
11.0	<p><b>Accessories to be supplied:- (</b></p> <p>A. State of art High Pressure Injector – One ( Floor / ceiling mounted ). (BAYER: Medrad Mark -7 ARTERION)</p> <p>B. Lead Glass ( 150*120 cm ) ( as per national and international safety norms).</p> <p>C. Radiation Shield – ceiling and table mounted radiation protection ( as per national and international safety norms).</p> <p>D. Integrated two way communication system between control room and examination room.</p> <p>E. One Laser Network printer of high resolution ( at least 1200 dots per inch ) with minimum 128 MB memory and 1200 dpi should also be offered for high quality image printing.</p> <p>F. Ceiling suspended operational light ( good quality ).</p> <p>G. 5 vest and skirt lead aprons ( AERB/ BARC approved ). (UNIRAY)</p> <p>H. 10 Nos good quality Lead Aprons (UNIRAY)</p> <p>I. 10 goggles for radiation protection ( good quality ). (UNIRAY)</p> <p>J. 15 Thyroid guards (UNIRAY)</p> <p>K. 5 lead cap. (UNIRAY)</p> <p>L. 15 badge to measure cumulative radiation exposure.</p> <p>M. Wall mounted stand ( No. 5 ) with hangers ( No. 20 ) for Aprons.</p> <p>N. Instrument table completely made of SS 304 – 2 Nos ( Lenth 130 cm, width- 45 cm , height 80 cm ( top span from floor ) with 2 span ( rack) with side rail on three sides , wheel size diameter, not less than 10 cm ).</p> <p>O. Console room chairs ( godrej/featherlite/wipro/equivalent)- 4 nos and adequate number of tables for work station and accessories. Rate to be included along with main equipment.</p> <p>P. Emergency trolley. Qty2.</p>
12.0	<p><b>Environmental factors</b></p> <p>A. The unit shall be capable of being work continuously in ambient temperature of 0-20 deg. C and relative humidity of upto70 %.</p> <p>B. Should meet general requirements of Electromagnetic Compatibility.</p> <p>C. The concessionaire would provide the necessary furniture's like tables, computer chairs, cupboards, catheter hang wall mount etc.</p> <p>D. Appropriate Air Conditioning would be provided by the concessionaire.</p> <p>E. Proper Shielding should have to be done by the concessionaire to minimum radiation leakage as per AERB and BARC regulations.</p>
13.0	<p><b>Power Supply</b></p> <p>A. Power input to be 220-240 VAC ( Single Phase ), 400-40 V ( 3 Phase )/ 50 Hz as appropriate fitted with Indian plug.</p> <p>B. Reset Table over current breaker shall be fitted for protection.</p> <p>C. Online UPS of suitable rating confirming to shall be supplied for the entire cath lab system including X-Ray Generator with minimum power back up of 30 minutes.</p> <p>D. Other minor issues like voltage fluctuations, cooling , pest control and rodent control is to be taken care by the concessionaire.</p>
14.0	<p><b>Standard Safety and Training</b></p> <p>A. Cath and accessories should be as per National and International parameters.</p> <p>B. Electrical safety conforms to standards of electric safety IEC -60601-1 General Requirements.</p> <p>C. Manufacturer should have ISO certifications for quality standards.</p> <p>D. Shall comply AERB and BARC guidelines.</p>

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6.3	Image storage capacity of at least 50,000 images in 1024 x1024 matrix at as more bits on the main system disk. A minimum of 16 bit acquisition, with at least 3 levels of zoom. The DQE of detectors should be >70 %.
6.4	The should have full table side control operation with complete acquisition and post processing capabilities.
6.5	The system should have on line DSA capabilities in 1024x1024 matrix with acquisition and post processing capabilities.
6.6	The System should have facility for storage of fluoro loop seen of at least 10 seconds.
6.7	The latest complete software and hardware for visualizing stent with adaptive modification in contrast to achieve fade in fade out effect of stent with respect to background from table side control.
6.8	Angle measurement with stenosis and distance measurement facility should be available.
6.9	Any other additional feature/design/technology towards image quality improvement will be given preference
6.10	The digital system should be connected to high resolution laser printer for printing images.
6.11	System must be supplied with latest software/algorithm.
7.0	<b>Monitor/Display: (Panasonic:TH-55FX600D)</b>
7.1	The monitor display system in examination room should be ceiling suspended and it should be possible to position it on the left or right side of patient table. The system should have one at least 55 inch medical display high resolution TFT/LCD monitor( can be divided in three sector ) to display live , reference Images and patient parameters. <i>Or</i> Three medical display high resolution TFT/LCD at least 19 inches monitors to display live, reference images with patient parameters.
7.2	One No. Minimum size of 24 inch high resolution TFT/LCD monitors OR 2 No. Minimum size of 19 Incheshighresolution TFT/LCD monitors for post processing and reporting in the control room.
8.0	<b>Digital Archiving:</b>
8.1	One DICOM workstation in control room capable to image review, CD/DVD burning. It should be connected to Cath lab with automatic image transfer in background mode with DICOM connectivity.
8.2	USB interface to copy images to memory disk/external hard disk/CD/DVD.
8.3	Cath Lab should be supplied state of art, complete coronary, ventricular and vascular on line and off line (both) quantifications software programs which are clinically validated operable from exam room and control roomOR from control room only. Auto calibration should be possible. All recall of stored images in fast –slow-still modes to select images at tableside itself. Integrated intercom facility between control room and examination room. Display and recording of radiation dose for each procedure should be available on console.
9.0	<b>Hemodynamic Recording system (NIHON KOHDEN LIFE SCOPE: BSM-3562)</b>
9.1	The following feature should be available in the recorder <ul style="list-style-type: none"> <li>• 12 Lead ECG Amplifier with floating input.</li> <li>• At least 2 pressures with floating input.</li> <li>• SpO2 cardiac output, respiration, NIBP measurement should be possible.</li> <li>• Time and amplitude measurement should be possible</li> <li>• Laser printer with minimum 16 MB memory with minimum 1200 dpi.</li> </ul>
9.2	The patient connection box should be easy to install at the patient table in the examination room.
9.3	18" color wave form for monitor with programmable layout and digital monitoring readout – two
9.4	A 18" remote colour wave form monitor, to be mounted in the examination room.
9.5	ECG Cables and reusable transducers – 5 Nos
9.6	Software should be provided for off line homodynamic calculations such as cardiac output, gradients and shunt estimates.
9.7	One workstation for off line Angio Viewing and recording.
9.8	System should be supplied with image storage server with at least 10 TB RAID storage and two work stations connected to view image.
	Each system should be supplied with following:

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	E. The system must be US FDA/ European CE with Notified Body approved
15.0	<b>Documentation</b> A. USER manual in English B. Service Manual in English C. List of important spare parts and accessories with their part number and costing. D. Certificate of calibration and inspection the factory. E. List of equipment's available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
16.0	<b>Other Requirement</b> A. Model should be latest B. Should have local service facility. C. Comprehensive warranty for 3 year for the complete systems including x-ray tube and air conditioning systems. Quote comprehensive maintenance contract (CAMC) for complete systems AN including x-ray tube for additional 7 years after expiry of warranty of 3 years. D. All steps to be taken to maintain 95% uptake time of the equipment failing which penalty clause would be imposed. E. Confirmation of availability of recommended spares for the maintenance and tube for 10 years. F. Facility for storage of CD's and DVD's and Cath lab hard wires to be provided.
17.0	<b>Civil works</b>
	The civil works i.e. renovation/construction/alternations shall be in accordance to the bidder for which rate contract is done and will be done by college through RSRDC/PWD/NHM in accordance to the draft outlines submitted of the topography.

**CMC Rates**

S NO.	Year of CMC	Net Rate	GST (%)	Total Amount
1.	1 <sup>st</sup> Year of CMC	1512790.00	18	1785092.00
2.	2 <sup>nd</sup> Year of CMC	1576115.00	18	1859816.00
3.	3 <sup>rd</sup> Year of CMC	1642772.00	18	1938471.00
4.	4 <sup>th</sup> Year of CMC	1712946.00	18	2021276.00
5.	5 <sup>th</sup> Year of CMC	1786828.00	18	2108457.00
6.	6 <sup>th</sup> Year of CMC	1864626.00	18	2200259.00
7.	7 <sup>th</sup> Year of CMC	1946558.00	18	2296938.00

- The agreement signed between RMSCL and the firm forms integral part of the rate contract.

  
Executive Director (EPM)  
RMSC, Jaipur

Dated: 13.10.2020

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Copy forwarded to the following for information & necessary action:

- P.S. to Mission Director NHM Jaipur.
- Director, (PH)/(Aids)/(FW)/(RCH)/(IEC)/(ESI).
- Principal, Medical College, Ajmer, Bikaner, Jaipur, Jodhpur, Kota, Jhalawar & Udaipur.
- Superintendent Jaipuriya Hospital Jaipur (Associated with RUHS College of Medical Sciences, Jaipur).
- Director, Medical & Health Services (ESI), Mobile Surgical Unit, Raj. Jaipur.
- All P.M.O.'s. & All CM&HO's.
- Executive Director (Logistics/Finance)
- AGM (IT), RMSC, Jaipur
- All DPC's DDW Rajasthan.
- BME (R&M), RMSC, Jaipur.
- M/s Allengers Medical Systems Ltd., Chandigarh (U.T.)

  
Executive Director (EPM)  
RMSC, Jaipur



**Rajasthan Medical Services Corporation Limited, Jaipur**

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No. F-8( ) RMSC/EPM/M-1/NIB-482/2020-21/ 109

Dated: 13.10.2020

All Principals Medical Colleges,  
All the Superintendents of Medical Colleges & Attached Hospitals.  
Director (PH/HA/IEC/AIDS/RCH)

**Sub:- Approval/Purchase of Item, 'CATH LAB', for the Rate Contract and supply, ending on 30.09.2022 (Revised).**

Please find enclosed herewith approved firm and CATH LAB, for the rate contract and supply ending on 30.09.2022. The rate contract and its terms & conditions are also available on Rajasthan Medical Services Corporation Ltd., Website [www.rmisc.nic.in](http://www.rmisc.nic.in).

In reference to the above rate contract No. F-8( ) RMSC/EPM/M-1/2020-21/NIB-482/...1.10....Dated. 13.10.2020 the supplier has executed the agreement with RMSC, as enclosed herewith for your information & necessary action. This bears an approval of M.D., RMSC, Jaipur.



Executive Director (EPM)

Rajasthan Medical Services Corporation Ltd, Jaipur

No. F-8( ) RMSC/EPM/M-1/NIB-482/2020-21/ 109

Dated: 13.10.2020

Copy forwarded to the following for information &amp; necessary action:

1. P.S. to Hon'ble Health Minister, Medical & Health Deptt. Govt. of Rajasthan.
2. P.S. to PHS, Medical Health & FW Deptt. Rajasthan, Jaipur.
3. P.S. to Mission Director NHM Jaipur.
4. Director, (PH)/(Aids)/(FW)/(RCH)/(IEC)/(ESI).
5. Principal, Medical College, Ajmer, Bikaner, Jaipur, Jodhpur, Kota, Jhalawar & Udaipur.
6. Principal R.U.H.S. College of Dental Science Jaipur.
7. Principal, RUHS College of Medical Sciences, Jaipur.
8. Superintendent Japuriya Hospital Jaipur (Associated with RUHS College of Medical Sciences, Jaipur).
9. Superintendent, SMS Hospital, Zenana Hospital, Mahila Chikitsalya, Mental Hospital, J.K. Lon Hospital, T.B & Chest Hospital, Jaipur.
10. Superintendent Associated Group of Hospital-Ajmer, M.G. Hospital, Jodhpur, Ummaid Hospital- Jodhpur, PBM Hospital-Bikaner, MBS Hospital-Kota & A.G. Hospital-Udaipur.
11. Director, Medical & Health Services (ESI), Mobile Surgical Unit, Raj. Jaipur.
12. Addl. Director, Medical & Health Services (PW)/(RH)/(Hospital Admn.)
13. Joint Director, Medical & Health Services, (Zone) Jaipur, Ajmer, Udaipur, Jodhpur, Bikaner, Kota & Bharatpur.
14. All P.M.O.'s.
15. All CM&HO's.
16. All Dy. CM&HO's.
17. AGM (IT), RMSC, Jaipur.
18. M/s Allengers Medical Systems Ltd., Chandigarh (U.T.)
19. Guard file.



Executive Director (EPM)

Rajasthan Medical Services Corporation Ltd, Jaipur

