

**HAFFKINE BIO PHARMACEUTICAL CORPORATION LIMITED****Procurement Cell****(A Government of Maharashtra Undertaking)****Regd. Office : Acharya Donde Marg, Parel, Mumbai 400 012 (INDIA)****Phone No: 022- 24129320-23****Managing Director :022-24150628****General Manager (Procurement Cell) :022-24100478****Website : http://www.vaccinehaffkine.com****E-mail: procurementcell@vaccinehaffkine.com****No.: 2808 /Haffkine/Procurement Cell/E-1687/C-Arm Machine/2019-20****Date: 14/02/2020****To,****M/s. Allengers Medical System Ltd.,****S.C.O. 212-213-214, Sector 34-A,****Nirmal Life Style, Near Shoppers Stop,****Chandigarh – 160 022, India.****E-Mail: govt@allengers.net****tenders@allengers.com****Subject : Supply Order for Tender No. E-1687/C-Arm Machine****Reference: 1. Tender No. E-1687/HBPCL/PC/C-Arm Machine/2019-20****2. Sanction of Tender Approval Committee Meeting Dated 31.01.2020**

With reference to the tender cited under reference no 1, you are requested to supply the following goods as per details mentioned below to consignee list enclosed with this order.

Sr. No.	Name of the item	Specification of item	Quantity /Unit (ESIC)	Unit Rate inclusive of GST(Rs.)	Total Amount Rs.
1	C-Arm Machine Make & Model: Allengers Medical Systems Ltd./Allengers HF-59R	As per Annexure X	5	15,00,000/-	75,00,000/-

Total amount in words: Rupees Seventy Five Lakhs only.**Factory Location: Allengers Medical Systems Ltd., Bhankarpur, Mubarakpur Road, Derabassi, Dist. Mohali (Punjab), India.**

- Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- Delivery Period:** 06 weeks from the date of receipt of order by the supplier to the consignee attached.
- Pre-Dispatch Inspection:** Supplier shall make necessary arrangement / facilitate to carry out Pre-Dispatch inspection as per Tender Terms & condition and submit the Inspection report to this office. The Pre-Dispatch inspection cost will be borne by supplier. Machine should be dispatched only after satisfactory Pre-Dispatch Inspection.

Amount to be deposited to Following Account:

Name of Account	Haffkine Bio-Pharmaceutical Corporation Ltd. (Procurement Cell), CESS Account Mumbai.
Name of the Bank & Branch	Canara Bank, Branch-Parel
Account No.	0110201004893
IFSC Code	CNRB0000110

Consignee: As per list enclosed



(Dr. Rajesh Deshmukh)
Managing Director
Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.

Copy to:

- 1) Commissioner Health Services, Mumbai.
- 2) Director, Medical Education & Research, Mumbai-400 001.
- 3) Account Manager, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai.
- 4) Office File.

Copy to Consignee: Dean, ESIC Kandivali, Mulund, Nagpur, Nashik, Ahmadabad. : As per Tender Condition No.17 The user Institution should get the Comprehensive Maintenance Contract done with supplier agency @ 5% of the Order value (excluding taxes) of equipment per year for Eight years after Completion of warranty period.

Copy Submitted to: 1) Secretary, Medical Education & Drug Department, Mantralaya, Mumbai.


Annexure-X

Sr.No.	Technical Specification of C-Arm Machine
1.	Mechanical motion requirement for C-Arm:
a.	Motorized vertical travel : minimum 430 mm or more
b.	Horizontal travel : 200 mm or better
c.	Rotational of C – Arm \pm 180 deg need 360 deg.
d.	Pivotal rotation : 15 deg. Or more
e.	Orbital rotation minimum 120 deg. (90 deg. To minimum – 30 deg) or better.
f.	Depth / Radius of C – Arm : 650 mm or better
g.	Free space between image intensifier & X – ray tube : minimum 750 mm or more
h.	Source to image intensifier distance (SID) : 880 mm or more
i.	Total width of C – arm : minimum 800 mm or less
2.	Collimator : Iris Collimator
3.	The C- Arm should have facility or locking the C-Arm movements with easy to turn handle on control unit. Rear wheels must be freely movable for easy to turn handle on control unit. Rear wheels must be freely movable for easy positioning or the complete C- arm around the OT table.
4.	Image intensifier should have at least triple field 9" input diameter offering resolution and contrast ratio 25:1 or better
5.	TV camera : ultra compact CCD camera or camera with CMOS or advanced CMOS sensor with high No of pixels (>450000) and video band width (at least 20 MHz or better) along with 2 Nos. CMOS with 20" or more 625 lines 100Hz flicker free TV monitors on separate monitor trolley with facility to rotate the image continuously.
6.	Direct Radiography : Radiography should be possible on a cassette to be fitted in a holder for 10 x 12 inches cassette. The unit should be complete within such holder and 1 No. cassette including high speed intensifying screen.
7.	X – ray generator : high frequency (> 14Hz) at least 1.9 KW or even better X-ray generator with high capacity rotating anode X-ray tube of dual foci of 0.3 and 0.6 mm
8.	Fluoroscopy out put : 40-120KV in 1KV steps
9.	MA out put : minimum upto 5 mA or more
10.	Snapshot : minimum 12.0 mA or more
11.	Fluoroscopy rate selectable : 1 image per second to 1 image per 5 second or better.
12.	Automatic dose rate regulation with KV & mV control
13.	Time totaler for fluoroscopy with facility for alarm after every 5 minutes of fluoroscopy
14.	Radiography output : 40 – 120KV in 1KV steps
15.	mA range : up to 200 mA or more
16.	mA max : up to 80 mA or better
17.	Image Memory: At least 1 (LH) + minimum 20,000 frames dynamic digital memory on Hard Disk with 1024 x 1024 matrix or better. There should be facility to insert patient name through alpha- numeric key board. The system preferably must be upgradable for performing real time digital subtraction angiography with acquisition up to 6 frames / sec. at any later date for peripheral angiography.
18.	Image processing:
a.	The system should have automatic does level selection.
b.	It should preferably have automatic image parameter selection with capability of switching on to manual selection.
c.	Image storage of 20,000 image on 720 or more / 580 or more (0.5k/ 0.5k)
d.	It should have image annotation facility; measuring of distance and angles, entering of demographic data of patients, support of DICOM 3.0 functions.
e.	Image processing must be a fully digital continues chain of at least 720 or more/ 580 or more (0.5k /0.5k) for image acquisition, processing, storage, archiving and documentation. The system should allow configuration and linking up with the HIS (hospital information system)
f.	Automatic KV and mA technique selection and manual mode
g.	Image vertical and horizontal reversal should be possible on the LH image after fluoroscopy
h.	Should have 2 x and 3 x zoom function.
19.	Essential Accessories : he complete functional system must be quoted with dual channel laser light source on X – ray does, built in diode area product meter for display or X- ray does, light weight

	lead aprons (5), thyroid shields (5), gonadal shields (5), lead goggles (3) and preferably a CVT and thermal imaging film printer with 5 film rolls and a CD / DVD writer.
20.	Two sets of sterile drape for the X-ray tube assembly, image intensifier and C – arm
21.	Power Requirement:
a.	Single phase, 230 V AC, 50 Hz
b.	Suitable stabilizer should be provided along with the unit.
22.	CCD /CMOS Camera with full 180 clock wise and Anti clock wise rotation
23.	Foot operated lockup system on large wheel.
24.	Should generate error code for troubleshooting
25.	Warranty : Company should provide comprehensive maintenance warranty of 2 years followed by 5 years. CMC included.
26.	Standards, safety and training :
a.	The system should have CE (should be from Notified Body) / US FDA Approval
b.	The equipment should be AERB approval and should submit documentation for the same.
c.	The unit shall be capable of being stored continuously in ambient temperature of 0-50° C and relative humidity of 15 – 90%.
d.	The unit shall be capable of operating in ambient temperature of 20-30 °C and relative humidity of less than 70%
e.	Should provide training to end users.
f.	User / Technical / Maintenance manuals to be supplied in English.
g.	The responsiveness of the bid will be based on successful demonstration of quoted model.
h.	The C-arm machine should be protected with a portable external voltage stabilizer unit (V-guard) to increase the life of the machine from undue voltage fluctuations
i.	The company should state the price of the spare parts of the machine part which would be in due wear and tear; say after 3 years so that the hospital administration is aware of all the prices.
j.	Training of the X-ray technician & / or of personnel to handle the machine is a must (already written)

Consignee Details

M/s. Allengers Medical Systems Ltd.		
C-Arm Machine		
Make & Model: Allengers Medical Systems Ltd./Allengers HF-59R		
Delivery Period	06 weeks	
PO Reference No.	No.: 2808 /Haffkine /Procurement Cell /E-1687/C-Arm Mchine/2019-20 Date: 14/02/2020	
Sr. No.	Name & Address of the Consignee	Qty.
1)	ESIC Kandivali	01
2)	ESIC Mulund.	01
3)	ESIC Nagpur.	01
4)	ESIC Nashik.	01
5)	ESIC Aurangabad.	01
Total:		05


 (Dr. Rajesh Deshmukh)
 Managing Director

Haffkine Bio Pharmaceutical Corporation Ltd.
 (Procurement Cell), Mumbai.