

**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
प्रशासकीय मान्यता निधी १,००,६३,२००/- जिल्हा वार्षिक योजना २०१९-२०	No.: 6437 /Haffkine/Procurement Cell/E-3338/ Digital Radiography Machine/2021-22. Date: 4/03/22

To,
M/s. Prognosis Medical Systems Private Limited
No. 249, 4th Main Road,
Chamarajpet, Bangalore - 560 018.
E-Mail: info@prognosismedical.com
tenders@prognosismedical.com

Subject : Supply Order for Tender No. E-3338/Digital Radiography Machine.

- Reference:** 1. Tender No. E-3338/HBPCL/PC/ Digital Radiography Machine /2020-21.
2. शा. नि. क्र. : जीएचएन -२०१९/प्र.क्र. २२२/प्रज्ञा-१ दि. ३१ ऑगस्ट, २०१९.
3. Sanction of Tender Approval Committee Meeting No. 142 Dated 11.02.2022.

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 (DMER)	Unit Rate inclusive of GST(Rs.)	Total Amount Rs.
1.	Digital Radiography Machine Make & Model : Prognosis Medical Systems & ProRad 3NC	As per Annexure X	01	1,00,63,200/-	1,00,63,200/-
Total amount in words: Rupees One Crore Sixty Three Thousand Two Hundred Only.					
Factory Location: No. 168/1, DasanapuraHobli, Next to Vani Vidhyalaya, Off Magadi Road, Machohalli, Bangalore – 560091.					

- 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.

- 4 **Risk purchase clause:** If the bidder fails to supply the stores within the stipulated delivery period, the order will stand cancelled. Undersigned shall be entitled to purchase such stores from any other source at such price which ordinarily should not be more than 10% of the tender price. The extra expenditure in such cases shall be recovered by Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai from the Supplier.
- 5 **Payment Terms:** Payment of 100% of the contract value will be made within 8 weeks on delivery and successful installation and satisfactory commissioning and operation of the machinery.
- 6 **Acceptance & Receipt:** It should be submitted in Appropriate Format to the purchasing authority.
- 7 **Delivery Challan** - Should be sent in the name of consignee in duplicate. It should specify Name of Equipment / Mfg. by / packing & quantity.
- 8 **Invoice Copy** - Should be sent in triplicate on the Name of Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai. Along with Bill of Entry and Country of Origin Certificate of the consignment.
- 9 **Other Terms :**
 - 1) **Warranty:** The warranty period shall be for 2 years from the date of commissioning of all equipment supplied as certified by the consignee. After completion of 2 years warranty period Manufacturer/Supplier should give commitment to ensure services and supply of spare part for further 8 years. The successful tenderer must ensure 95% uptime during warranty period. In case of downtime, warranty period will be extended for period of downtime. If the equipment is not attended within 24 hours for Mumbai and 48 hours for other places the supplier will be liable to pay a penalty of 0.07% of purchase cost for every day of delay. Such penalty will be recovered from the amount of security deposit. Certificate of such uptime / downtime issued by the end user will be binding for the supplier Replacement of spares parts thereof due to manufacturing defects during warranty period will be entirely at the supplier's cost.
 - 2) The user institution will enter to the Comprehensive Maintenance Contract with supplier agency @ 5% of the order value (excluding taxes) of the equipment per year for 8 years after completion of warranty period. In case of non-compliance of CMC the supplier will be liable to pay penalty or for appropriate action. Payment of CMC on yearly basis will be made by the user's institution, at the end of the year after satisfactory performance report from the end user.
- 10 **Contract Agreement:** Bidder should submit Contract Agreement on non-judicial stamp paper of requisite value.

Fall Clause


It is a condition of the contract that all through the currency thereof, the price at which you will supply stores should not exceed the lowest price charged by you to any customer during the currency of the contract and that in the event of the prices going down below the rate contract prices you shall promptly furnish such information to us to enable to amend the contract rates for subsequent supplies.

- 11 The Bidder should submit (within 7 days) amount of 1.5% i.e. **Rs. 1,50,948/-** of order value to meet other incidental expenditure and 3% i.e. **Rs. 3,01,896/-** as Security Deposit in form of Bank Guarantee. The Bank Guarantee valid for 2 months after the expiry of date of warranty issued by any Nationalized / Scheduled Bank.

Amount to be deposited to Following Account:

Name of Account	Haffkine B P C L (Procurement Cell), CESS Account
Name of the Bank & Branch	Bank of Maharashtra, Branch- Mumbai Parel
Account No.	60381379835
IFSC Code	MAHB0000079

Consignee: As per list enclosed


Smt. Sushama Patil
General Manager (Addl. Charge)
मा. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करित्वे **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, Government Medical College & Hospital, Nagpur. : 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

Specification for Digital Radiography Machine
High frequency X- ray unit for general radiography with digital flat panel technology. The system should be capable of both erect and supine radiological examinations. The unit should be completely integrated with the following specifications. All Software updates should be provided in warranty and CMC period.
Flat Panel Detector and acquisition software should be manufactured by same manufacturer and both shall be USFDA approved.
1. The unit should comprise of the Following :
a. Two Flat Panel Detector Built-in) one for Bucky Table and one for vertical stand
b. Generator
c. Ray Tube and Collimator
d. Ceiling suspended 3D Column Stand
2. Flat Panel Detector
a. Flat Panel Detector size of at least 43 x 43cm or more.
b. Detector Panel should be made of amorphous Silicon with CSi
c. Image matrix size at least 2000 x 2000 or more
d. Minimum Pixel should be 150 micron or less.
e. Grey scale of 14 bit or more
f. A/D of 14 bit or better
g. Tube assembly movement to be automatically synchronized with the detector movement
h. Preview time after exposure 5 Sec or less.
i. Image processing time should not be more than 9 sec
j. DQE at 0Ip/mm should be at least 65% or more.
3. Generator
a. X-Ray generator should be of microprocessor controlled high frequency (mention the frequency) type with latest technology having constant output with low ripple frequency
b. Output 80 KW or more
c. KVP range 40kV-150kV with 1 kV steps
d. Output 1000mA or more at 80 KV or better.
e. Kv/ Ma output specifications 1000m at 80 kV 800mA at 100kV
f. Minimum exposure time should be 1 ms or less
g. It should have automatic exposure control (AEC) device.
h. It should have digital display of KvP and mAs.
i. Anatomical programming radiography should be possible
j. It should have over loading protection
4. XRAY TUBE
a. The X- Ray Tube should be rotating anode high speed (8000 rpm or more) compatible with the generator and must have dual focus
b. Focal spots of the following sizes Large Focus 1.2mm or less Small Focus 0.8mm or less
c. X- ray tube loading should be at least 30K Wfor small focus and at least 80KW for large focus
d. X- ray tube with anode heat storage capacity of 400- 600 kHU or more
e. Tube protection agent overload
f. Target angle should be at least 12 deg
g. A high speed rotor accelerator (starter)
h. Please specify tube rotation at vertical axis and horizontal axis
5. Ceiling suspension
a. Ceiling suspended 3D Column stand with facility of automatic positioning and Synchronization
b. Movement in all direction should be easily possible
c. It should have auto tracking and autoposition functions.
d. Monitoring of all the position data on colour touch screen for system control (kV, mAs, SID, tube angle, column angle)
e. SID Source to Image Distance) in vertical positions 135 cm or more, in horizontal position 180

cm or more.
6. X- Ray Table
a. 6 way Free floating carbon fibre or equivalent table top table with low attenuation.
b. Anti-collision control system
c. Table should support patient weight of 200 kg or more.
d. Auto-tracking capability without mechanical link
7. Vertical Bucky stand (wall Stand)
a. Motorized counterbalanced adjustable height vertical Bucky for the digital flat panel detector.
b. Detector movement should be synchronized (auto-tracking) with movement of X ray Tube
c. Bucky should have a grid ratio 10:1 or more
8. Filter & Collimator
a. Inherent filtration of at least 1.00mm Al
b. Square collimation manual 85 motorized should be controllable by organ programming
c. Full field light localizer
d. Rotation of +/-45 deg or more.
e. Display of collimation, filter 86 SIS
9. Operating (Acquisition) Station
a. Should have high res TFT/LCD monitors of min 17 inch or more fully flat with min 1024 x 1024 or more display matrix and reflective front screen
b. Plz specify image size
c. Operating console should have facility for patient identity entry, viewing and processing images, documentation etc
d. Preview image should be ready in minimum time
e. System should have auto protocol select
f. System should have at latest processor with 4 GB or more RAM and 2 TB or more storage capacity
g. Fully automatic stitching should be possible on vertical bucky and table Scoliosis stand to be provided Option of single point and multi point stitching should be available.
10. Image viewing, post processing reporting and documentation station
a. It should have latest operating system
b. 19inch or more LCD LED of quality reputed international make make medical grade monitor of minimum 2MP resolution must be provided.
c. Image display should be of high resolution.
d. High luminance display for diagnostic image viewing
e. Post-acquisition image processing, viewing re processing, hard copy documentation and onwards transmission should be possible
f. Image processing functions like rotate, mirroring zoom move. Windowing filter should be possible
g. Should be connected to Dry chemistry camera for documentation Multi format printing should be poses with user selectable options
h. It should have CD/DVD writing facility
11. Image storage and Transmission
a. Hard disk storage capacity should be of 10,000 or more
b. The system should support of images on compact DVD
c. The system should be DICOM 3.0 (or higher version) ready (like send, receive, print, record on CD/DVD acknowledge etc) for connectivity to any network computed/ PG etc in DICOM format
d. Easy integration and networking should be possible with any other existing future networking including other modules HIS, RIS & PACS at no extra cost.
12. DAP Manual collimator must be mounted on X- ray tube and collimator must have an integrated dose area product.(DAP) meter Output of DAP meter should be visible in console.
13. Accessories
a. Dry Chemical Camera should have 500 DPI and should print at least 3 sizes of films 8x 10, 14 x 17 10x12, 11x14 inches. 200 films of each size to be supplied.
b. Online UPS along with batteries of appropriate rating to give 30 min back up to operate the complete system including x ray machine and imager.
c. Zero lead aprons (0.25 mm lead equivalent) with hangers-4 nos.
d. Stand for lead aprons -1
14. Approvals

a. The equipment should have US FDA and European CE with four digit notified body number certificate and certificate to be submitted.
b. The system should be AERB type approved and the copy of E-LORA listing should be submitted along with bid
c. Regular QA according to AERB norms will be responsibility of bidder during warranty CMC period
Scope of Work for Turnkey DR System:
The Supplier should inspect the proposed site and submit all the detailed structural architectural drawings and BOQ for the proposed DR Centres along with technical the tender
The DR CENTRE shall consist of the following rooms
a) DR room
b) Console room
c) Equipment room
d) Patient room
e) Patient waiting area
The actual area of turnkey works done will be considered for payment based on Unit rates and site measurements
1. Civil Work
i. Civil construction work including construction of brick wall if any, Plastering, flooring as per the approved plan and equipment layout plan.
ii. Concrete bed at DR equipment area
iii. Platform for unloading and shifting the DR should be provided if Necessary.
iv. Cable tray trench & channel-necessary trenches, cable tray and channels required location would be provided
v. All the construction work to be done as per the final plan approved by the Consignee
a. Flooring
i. 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
ii. 50mm thick cement concrete flooring with Vinyl flooring in DR equipment/UPS room
b. Painting
Two coats Plastic Emulsion Paintover 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, DR room & Equipment room etc.
c. False Ceiling
Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.
2. Plumbing work
All water pipes and fittings shall be of high density polythene of approved and standard make The gratings shall be brass chrome plated All plumbing accessories should be of standard make
3. Electrical work
a. The supplier shall be required to specify the total load requirements for the DR centre including the load of air conditioning room lighting and for the accessories if any
b. Vendor will arrange for the and ensure proper electric supply from MSEB source required for smooth functioning of machine with the standard electric wiring and other incidental requirement including suitable transformer, kindly visit the site The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting
The electrical work shall include the following
i. Wiring-All interior electrical wiring- with main distribution panel board, necessary MCBS, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below
ii. switches light and power points should be of modular type and of standard make as listed below
iii. General lights LED light fitting with 500 Lux Illumination
4. AIR CONDITIONING
a. Package air conditioners units and split AC units may be used according to room requirement and suitability Humidity control should be effective to eliminate moisture condensation on equipment surface. The Air conditioning should be designed with standby provision to function 24 hours a day.
b. The outdoor units of AC should have grill coverings to prevent theft and damage
c. Ventilation is required in toilet

5. Environment specifications:	
Relative Humidity range: To be maintained between 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.	
Temperature ranges: 22+2 C in all areas except equipment room which shall be as per requirement of the equipment.	
Air conditioning load: The heat load calculations and maintaining the desired temperatures and humidity shall be the responsibility of the bidder	
6. Furniture	
a. Revolving chairs height adjustable, medium back with hand-rest in the Con Radiologist room and viewing area - 4 NO S	
b. Chairs for patient waiting area-Three seater (chrome plated) 10 NO	
c. Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement- 3 NOS	
d. Drug trolleys for patient preparation area- 1 No.	
e. Patient trolley with rubber foam mattress to be kept in the patient preparation.	
f. Name boards for a rooms	
g. Tables for Workstation 1 NO'S	
h. Changing rooms should have change lockers and dressing table	
i. Dustbins - 10 NO'S	
j. Any other essential furniture item as per requirement	
All furniture items should be of standard make as mentioned in the table.	
7. Miscellaneous:	
a. LED X-ray Film viewer with adjustable brightness, capable of holding 14'x17 size-3 no s3	
b. Cabling of Network (LAN) connectivity for camera system console system, workstation and computers etc	
c. Fire extinguisher Dry CO2 type as required for the building safety.	
LIST OF ITEMS AND SUGGESTED MANUFACTURERS	
ITEMS	PREFERED MAKES
A. FLOORINGVITRIFIED TILES	So many, Kajaria, H & R Johnson Rak India
B. PAINT	Dulux, Asian Paints, Nerolac
C. PLUMBING	Kohler, Jaguar, Grohe, Roca
D. SANITARY ITEMS -	Cera, Hindware, Parryware
E. ELECTRICAL	
1. CABLES	Finolex, Havells, V-Guard
2. SWITCHES	Legrand, L&T, Crabtree, Roma
3. DISTRIBUTION BOX,MCB	Legrand, L&T,Seimens, Havels
4. LIGHT FITTINGS	Philips/Crompton/Wipro/Syska
5. AIR CONDITIONING	Daikin, Hitachi, Blue Star, Voltas
6. FURNITURE	Hermen Miller, Godrej, Featherlite, Geeken
ITEM DESCRIPTION	QUANTITY
1. 1000mA X-RAY System with digital flat panel detector as per Tender specification (point 1 to 12)	1 Nos
2. Point 13 Accessories	
3. a. Dry chemistry camera as per specification	1 Nos
4. b .Online UPS as per specification	1 Nos
5. c. Zero lead aprons with hanger	4 Nos
6. d. Stand for lead aprons	1 Nos
Turnkey Work (1000 sq ft.) as per specification	
1. Civil works	1000 sq.ft.
2. Electrical work	1000 sq.ft.
3. Public health (plumbing and sanitary fittings)	1000 sq.ft.
4. Air conditioning	12 TR

5. Interior furnishing and Furniture	1000 sq. ft.
6. Miscellaneous Furniture	ITEMS
1. Revolving chairs height adjustable, medium-back with hand-rest.	4 Nos.
2. Chairs for patient waiting area -Three seater (chrome-plated)	10 Nos.
3. Cupboard with laminate door shutters	3 Nos.
4. Drug trolleys for patient preparation area	1 Nos.
5. Patient trolley with rubber foam mattress	2 Nos.
6. Tables for workstation and radiologist	2 Nos.
7. Changing rooms (with change lockers and dressing table)	1 Nos.
8. Dustbins	10 Nos.
9. Room signage	AS REQUIRED
10. Venetian Blinds	AS REQUIRED
Miscellaneous:	
1. LED XRAY film viewer	2 Nos
2. Cabling of network (LAN) connectivity for camera system, console system, workstation and computers etc.	AS REQUIRED
Dry chemical power type fire extinguisher of 5kg capacity	3 Nos.

Consignee Details

M/s. Prognosys Medical Systems Private Limited		
Digital Radiography Machine		
Make & Model : Prognosys Medical Systems & ProRad 3NC		
Delivery Period	06 weeks	
PO Ref. No.	No.: 6437 /Haffkine/Procurement Cell/E-3338/Digital Radiography Machine/2021-22. Date: 4/03/22	
प्रशासकीय मान्यता निधी १,००,६३,२००/- जिल्हा वार्षिक योजना २०१९-२०		
Sr. No.	Name & Address of the Consignee	Oty. (DMER)
1.	Government Medical College & Hospital, Nagpur.	01
Total :		01

मा. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

Smt. Sushama Patil

General Manager (Addl. Charge)

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