

**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	Website : http://www.vaccinehaffkine.com
Managing Director :022-24150628	E-mail: procurementcell@vaccinehaffkine.com
General Manager (Procurement Cell) :022-24100478	No.: 6500 /Haffkine/Procurement Cell/E-1231/Modular O.T./ 2021-22.
दि: १९.११.२०१८ प्रशासकीय मंजूर निधी	Date: ०९/०३/२२
६,००,००,०००/- (DPDC २०१८-१९) (Qty.- 01)	

To,
M/s. Medi-Ex Devices Pvt. Ltd.,
 G-3, Mangal Aadesh, 4th Road,
 Santacruz East, Mumbai - 400055.
 Contact No.: 9321129109.
E-Mail: manish.mediexgroup@gmail.com

Subject : Supply Order for Tender No. E-1231/Modular O.T..**Reference: 1. Tender No. E-1231/HBPCL/PC/Modular O.T./ 2019-20.**

2. शासननिर्णय, क्रमांक - एसएचएम-२०१८/प्र.क्र.३५५/प्रशा-१
दिनांक : १९ नोव्हेंबर, २०१८.

3. Sanction of Tender Approval Committee Meeting No. 144
Date : 24.02.2022.

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	Modular O.T.	As per Annexure X	01	5,01,60,000/-	5,01,60,000/-
Total amount in words: Rupees Five Crore One Lakh Sixty Thousand Only.					
Factory Location: G-2/3, Mangal Aadesh, 4th Road, Santacruz East, Mumbai - 400055					

- 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 the 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. 7,52,400/-** of order value to meet other incidental expenditure and 3% i.e. **Rs. 15,04,800/-** 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

म. व्यवस्थापकीय संचालक, मांज्या मान्यतेने व करिता


Mrs. Sushama Patil
General Manager
(Additional Charge)

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, St. George's Hospital, Mumbai.: 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

Technical Specification of MODULAR OPERATION THEATRE (MOT)	
1	<p>Stainless Steel 304 PUF Panel - Wall Minimum 80 mm thick Double Skin, it will have two independent SS 304 surfaces, freestanding structure, constructed from composite free standing Insulated Wall panels shall be made of SS 304 Thickness not less than 0.8mm front and 0.8mm . The Core should consist of rigid polyurethane foam, which has been injected under high Pressure, with a minimum density of 40kg/m³ and Thickness of panel for wall 80mm minimum, and silicone sealant with supporting hardware/sub frame/plates in Galvanized steel to achieve better thermal Insulation and backing.</p>
2	<p>Stainless Steel 304 PUF Panel - Ceiling Minimum 50 mm thick Double Skin, it will have two independent SS 304 surfaces, freestanding structure, constructed from composite free standing Insulated ceiling panels shall be made of SS 304 Thickness not less than 0.8mm front and 0.8mm back . The Core should consist of rigid polyurethane foam, which has been injected under high Pressure, with a minimum density of 40kg/m³ and Thickness of panel for ceiling 50mm minimum, and silicone sealant with supporting hardware/sub frame/plates in Galvanized steel to achieve better thermal Insulation and backing.</p>
3	<p>Anti Bacterial Anti Microbial Paint Coating on Wall & Ceiling Panel: Filling of all Joints and cavities with metallic Epoxy Filler and Sanded Flush to provide a joint less finish and then sprayed with a water based liquid plastic aseptic and self sterilizing wall coating system to a d.f.t. of 300 microns with primer.</p>
4	<p>Coving between wall panel and ceiling panel aluminium</p>
5	<p>Anti- Static Conductive Vinyl Flooring: Supply, Installation and Commissioning of Vinyl Anti Static Conductive Flooring in Roll form seamless with perfectly curved flash-covings, resistance to mechanical stresses and dynamic loads and having ESD/ EMI (conductive) protection characteristics, 2 mm thick, washable. The floor will be laid flat along with self-levelling compound within a tolerance of ± 3mm over any 30 Sq.mtr areas. Copper grounding strip minimum of 0.05 thick and 50 mm width will be laid flat on the floor in the conductive adhesive and connect to copper wire of grounding attaching it to main earthing strip/ground. The flooring will be antifungal/anti-microbial, scratch, fire, chemical, slip resistant, non-corrosive and smooth. The floor finished level will pass over a concealed cove former and continue up all the walls on all four sides by 100mm</p>
6	<p>Laminar Air Flow System: Supply, Installation, Testing and Commissioning of Laminar Air Flow System of size. The laminar should be constructed with SS 304 sheet Laminar system will introduce the highest air quality into the operation theatre. Air should be diffused into the room uniformly over the total area through perforated stainless sheet SS 304 grade. The Perforated Sheet should be installed in a manner which allows them to be removed for easy maintenance of air filter. HEPA filters of H14 Grade 99.97% efficiency are used to ensure high quality clean air is supplied and under tight control of bacterial infection system.</p>
6A	2400 X 2400MM
6B	2400 X 1800MM
7	<p>Return Air Risers: SITC of Return Air Riser will be in GSS Pre-coated sheet with GI hardware and perforated Grills. Risers will be sealed with silicone sealant, and Elastomeric Foam Gaskets etc. It will have provision of 10 Micron Pre- Filter with filter holding clamps. Suction Perforated Grille SS 304.</p>
8	<p>Bio Air - Conditioning for Laminar flow CFM (AS MENTIONED BELOW) including Condensing unit TR (AS MENTIONED BELOW BRANDED UNITS ONLY) Humidity & Temp. Control, maintaining the positive pressure. Comprising of Double skin AHU,</p>

	<p>Electrical control panel, Thermostat etc.</p> <p>Installation of unit including up to 10 RMT. Copper piping, MS stand, expansion valve, insulation, cabling etc.</p> <p>Pre filters having dust spot efficiency of 05 to 10 microns</p> <p>CFM S.P. (MM) T.R.</p> <p>Condensing Unit (Outdoor Unit), Electrical Control panel (Conforming to IEC 61439-1 STANDARDS) & AHU</p>
	4000 CFM 11.5TR
	3500 CFM 11.5 TR
	3500CFM 8.5 TR
	3000 CFM 8.5 TR
9	<p>Rectangular Ducting in Aluminium. Sheet with adequate insulation</p> <p>SITC of Ducting will be in Aluminium sheet ducts having thickness of Gauge, including insulation & necessary hangers/ supports, supported by ceiling suspended hardware and grid applied volume control duct dampers, accessories, vanes, 3 mm EPDM rubber gasket etc. The joints will be air tight, sealed with Silicone Sealant for leak tight installation and will be supported from ceiling with tie rod, anchor fasteners as per the recommendation and specification.</p>
10	HUMIDITY CONTROL MODULE : energy saving hot gas reheating heat exchanger with necessary PLC Controller, Humidity Sensory and Copper Piping
11	UVC EMITTER : These devices use germicidal ultraviolet - C ("UVC") energy to eradicate surface & airborne mould, as well as viruses and bacteria. The "C" wavelength of UV spectrum targets the DNA of microorganisms, causing cell death or making replication impossible
12	DIFFERENTIAL PRESSURE GAUGES : Magnehelic gauges with housing box & mounting accessories Make : Dwyer / Warea Range 0 to 30 Pascal
13	LED Peripheral Lights: Supply, Installation, Testing and Commissioning of Recess mounted IP65 Protocol, non-hygroscopic LED Peripheral Lights having Size – 600 X 300mm Recessed Lights Conforming to IEC 60601-1 STANDARDS
14	<p>Surgeon Control Panel: Supply, Installation, Testing and Commissioning of Tile based and Membrane Type Surgeon Control Panel, mounted flush in the theatre wall, comprising of the following: 1 No. Day Time Clock</p> <p>1 No. Elapsed Time Clock</p> <p>1 Set ON/Off & Dimmer for Peripheral Lights</p> <p>1 Set Digital Medical Gas Indicator</p> <p>1 Set indicator for Temperature and Humidity display</p> <p>1 No. Hands Free Telephone Conforming to IEC 60601-1 STANDARDS</p> <p>Note: Gas Sensors will be provided by the MGPS vendor</p>
15	Two Plate LED X-Ray Film Viewer - Dimmable: Supply, Installation, Testing and Commissioning of Two Plate dimmable X-Ray viewing screen designed to provide a high level of control luminance without flicker. On/Off and dimming operation should be through integrated PCB. Conforming to IEC 60601-1 STANDARDS
16	<p>Pressure Relief Damper: Supply,</p> <p>Installation and Commissioning of Pressure Relief Damper having multi 304 graded stainless steel blades to control room air pressure (Air Positive Pressure)</p>
17	Storage Unit: Supply, Installation, Testing and Commissioning of Storage Unit of size 1666 X 865 X 350 mm having two shelves and made out of SS 304 having minimum 5 mm thick glass door and mounted flush with the theatre wall.
18	<p>Hermetically Sealing Door with Automation:</p> <p>Supply, Installation, Testing and Commissioning of Sliding, hermetically sealing type of manual Door of size 1355mm X 2100mm having high density particle board cores, high pressure laminated faced on both sides, viewing window 350 X 350 mm with SITC of Microprocessor based Electronic Automation for Manual Door for controlling the direction</p>

	of movements, the acceleration and speed of the door, with a low noise level pulse generator motor. It includes a photocell for user's safety along with Radar Hand Switch and Foot Switch
19	Writing Board Magnetic: Supply, Installation, Testing and Commissioning of Operating Writing List Board of size (948mm X 648mm)
20	Anaesthesia Pendant: Supply, Installation, Testing and Commissioning of Anaesthesia Single Arm Pendant and console made up of High grade Aluminium extrusion, Comprising of <ul style="list-style-type: none"> - 1 x Arm 800mm having a - 1 X drop tube having a carrying capacity of maximum load of 85 kg - Rotation of 330 deg. - 1 x Basic Console - 800mm - 1 x Adjustable shelf (Tray) - 6 x Mains Socket (5/15Amp) Electrical 230V - 4 x Medical Gas Terminal & Hose Assembly (1 x Oxy, 1 x Vac, 1 x Air(4bar), 1 x N2O) Note: Gas outlets will be provided by the MGPS vendor
21	Surgeon Double Arm Pendant: Supply, Installation, Testing and Commissioning of Surgeon Double Arm Pendant and console made up of High grade Aluminium extrusion, Comprising of <ul style="list-style-type: none"> - 1 x Arm 800 & 1 x Arm 800 having a - 1 x drop tube having a carrying capacity of maximum load of 120 kg - Rotation of 330 deg. - 1 x Basic Console - 800 mm - 1 x Fixed shelf - 1 x Adjustable shelf - 6 x Mains Socket (5/15Amp) - 7 x Medical Gas Terminal & Hose Assembly (2 x Oxy, 2 x Vac, 1 x Air(4bar), 1 x Air(7bar), 1 x N2O) Note: Gas outlets will be provided by the MGPS vendor
22	MGPS work inside the OT : Pipeline of copper as per size within the OT and upto the Pendant after which flexible hose upto Ports on pendants, of reputed make
23	Electrical work inside the OT requisite with proper branded cables/wires as per load all in FRLS
24	SITC of OT Lights LED Double Dome 150000 lux plus 100000
	SUMMARY OF ALL WORK FOR ALLIED AREAS WITHIN THE MODULAR OT COMPLEX
1	Anti- Static Vinyl Flooring: Supply, Installation and Commissioning of Vinyl Anti-Static Flooring in Roll form seamless with perfectly curved flash-covings, resistance to mechanical stresses and dynamic loads and having ESD/ EMI (conductive) protection characteristics, 2 mm thick, washable. The floor will be laid flat along with self-levelling compound within a tolerance of ± 3 mm over any 30 Sq.mtr areas. Copper grounding strip minimum of 0.05 thick and 50 mm width will be laid flat on the floor in the conductive adhesive and connect to copper wire of grounding attaching it to main earthing strip/ground. The flooring will be antifungal/ anti-microbial, scratch, fire, chemical, slip resistant, noncorrosive and smooth. The floor finished level will pass over a concealed cove former and continue up all the walls on all four sides by 100mm
2	Metallic False Ceiling: The Metallic False ceiling is constructed out of Powder coated Aluminium having size 600 X 600mm Air tight tile based supported by ceiling suspended hardware and GI grid. Further filling of all Joints and cavities with Silicone Sealant, making


	it joint less
3	Antimicrobial/Anti-Fungal Coating on Wall & Ceiling: Providing 2-3 mm thick readymade special grades "Filler and Putty" on Wall & Ceiling surface to give smooth and joint less finish. Applying primer and two coats of polyurethane coat on all internal Wall & Ceiling surfaces. The system is Anti-fungal/Anti-Bacterial, UV resistant, Non-yellowing in nature. Water washable and with special microbiological characteristic against bacteria, it provides an environmentally safe condition.
4	Drywall Partition with Antimicrobial Paint: Providing and fixing Drywall Partition using 2mmX50mmX35mm Aluminium box section at 600mm X 600 mm fixed with necessary screws fitting, additional fixing channel will be provides at jointing of all the board for more strength, One layers of 12mm thick HILUX calcium silicate board on either side of the frame work with necessary screw, the joints of board will be sealed with specially formulated USG Jointing compound for smooth flush finish
5	VIEW WINDOW – The view window of size (as per site requirement) shall be provided consisting of double insulated fixed glazing with not less than 5mm thick toughened glass The window frame shall be powered coated aluminium of approved shape flush mounted with panelling / wall
6	2-Bay Scrub Sink, Automatic cum Manual With Infrared Photo sensor, Digital Timer with user defined Time interval 1, 3, 5 and 10 minutes, 1 no. mixture valve and 2 nos. solenoid valves along with Manual Option Foot Operated mechanism. Anti-splash metal body construction made of Stainless Steel Grade 304 polished finished. The scrub sink is provided with front access panel for ease of maintenance and repairs. 2- Position size 1200 mm long
7	V R V SYSTEM as per requirement for allied areas
8	GI Powder Coated double skin door with 44 mm leaf thickness made of 0.80 mm GI sheet for door leaf with honeycomb infill and door frame made out of 1.20mm thick GI profile with below accessories Door D handle with push plate, Door Gasket Door vision glass 300 x 600 Kick plate standard 250 mm height 0.8 mm thick Both side key dead lock Door closer , door drop seal Tower bolt for double door 750 x 2100
9	HPL Double Leaf Manual Swing Door: Supply, Installation, Testing and Commissioning of HPL Double Leaf Manual Swing Door Inside Open able Flush Door of size having viewing window on the shutter of sizes 300 X 300mm. The Door frame is made of Extruded Aluminium Profile having Gasket to provide Leak less mechanism on three sides; the Door will have drop seal to provide sealing against the floor. Door will have Dorma TS-68 Door Closer, D type Handle and Cylindrical Door lock system. 1800 X 2100 1900 X 2100 1390 X 2100 1360 X 2100 1500 X 2100
10	HPL Single Leaf Manual Sliding Door: Supply, Installation, Testing and Commissioning of HPL Single Leaf Manual Sliding Door of size having viewing window on the shutter of sizes apprx 300 X 300mm. The Door frame is made of Extruded Aluminium Profile having Gasket to provide Leak less mechanism on three sides; the Door will have drop seal to provide sealing against the floor. Door will have Dorma TS-68 Door Closer, D type Handle and Cylindrical Door lock system. 1900 X 2100 750 x 2100 1050 X 2100
11	LED Peripheral Lights: Supply, Installation, Testing and Commissioning of Recess mounted IP65 Protocol, non-hygroscopic LED Peripheral Lights having Size – 600 X 600mm Recessed Lights

12	MGPS work : Pipeline of copper as per size in anaesthesia room with Ports, of reputed make
13	Electrical work requisite with proper branded cables/wires as per load all in FRLS
14	Removal of Old ducting, old existing false ceiling, civil scrub, partitions, old doors with frames, existing mgps pipeline, existing OT x-ray viewer, other fixtures etc
15	zero levelling of walls and floor, sealing of gaps in windows and sealing windows above false ceiling etc

Consignee Details

M/s. Medi-Ex Devices Pvt. Ltd.		
Modular O.T.		
Delivery Period	06 weeks	
PO Ref. No.	No.: 6500 /Haffkine/Procurement Cell/E-1231/ Modular O.T./2021-22. Date: 09.03.22	
	दि: १९.११.२०१८ प्रशासकीय मंजूर निधी ६,००,००,०००/- (DPDC २०१८-१९) (Qty.- 01)	
Sr. No.	Name & Address of the Consignee	Qty.
1)	St. George's Hospital, Mumbai.	01
	Total	01

मह. व्यवसायकीय संचालक यांच्या मान्यतेने व करिता


Mrs. Sushama Patil
General Manager
(Additional Charge)

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