

**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****दि: ०१.०६.२०२१ प्रशासकीय मंजूर निधी (प्रतिनग)  
२,३२,७०,२५६/- (जिल्हा नियोजन समिती २०२१-२२)  
(Qty.- १)****No.: 7958 /Haffkine/Procurement Cell/ RT-4915/  
Modular Neonatal Intensive Care Unit/ 2022-23.  
Date: 29/11/2023****To,****M/s. Hansraj Nayyar Medical India Pvt. Ltd.,****L8, Laxmi Industrial Estate, New Link Road,****Andheri (West), Mumbai- 400053****Contact No. +91 22 26304581/ 9326672042.****E-Mail: [mumbai@hansrajnayyar.com](mailto:mumbai@hansrajnayyar.com)****Subject : Supply Order for Tender No. RT-4915/Modular Neonatal Intensive Care Unit.****Reference : 1. Tender No. RT-4915/HBPCL/PC/ Modular Neonatal Intensive Care Unit/ 2022- 23.****2. शासननिर्णय, जिल्हा नियोजन समिती, मुंबई यांचे पत्र क्र.****जिनिसमुंश/जिवाया/प्रा.आ.२०२१-२२/२०२१/३९७, दिनांक : ०१ जून, २०२१.****3. Sanction of Tender Approval Committee Meeting No. 183 Date : 02.11.2023.**

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       | <b>Modular Neonatal Intensive Care Unit<br/>Make: Nasal CPAP – nCPAP300<br/>Model : PHOENIX</b> | <b>As per Annexure X</b> | <b>01</b>             | <b>2,31,34,800/-</b>            | <b>2,31,34,800/-</b> |

**Total amount in words: Rupees Two Crore Thirty One Lakh Thirty Four Thousand Eight Hundred Only.****Factory Location: Palram Ltd. Rmat-Yohanan 30035 Israel.**

- 1. Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- 2. Delivery Period:** 12 weeks from the date of receipt of order by the supplier to the consignee attached.
- 3. 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 a tripartite (Importer, Manufacturer and Haffkine Bio Pharmaceutical Corporation Ltd.) Contract Agreement on non-judicial stamp paper of requisite value.

#### **Fall Clause**

It is a condition of the contract that all through the currency there of, 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. **Consignee:** As per list enclosed

या. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

  
General Manager

**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: Cama & Albles 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 For Modular Neonatal Intensive Care Unit**

**Bubble CPAP (Quantity -2)**

| TECHNICAL   |  |  |
|---|--|--|
| 2. TECHNICAL CHARACTERISTICS  |  |  |
| 2.1   | Technical characteristics (specific to this type of device)  | <ol style="list-style-type: none"> <li>1) Device should be able to deliver CPAP of 1 to 10 cmH<sub>2</sub>O increments of 1 cm, using an under water bubble system.</li> <li>2) The device should have an in-built air oxygen blender to deliver FiO<sub>2</sub> 21% to 100% (+/- 2 %) with an adjustable flow in the range of 0 -15 L/min (+/- 0.5 L/min);</li> <li>3) Should have a heated wire servo controlled humidifier with display temp. near patient end of the circuit; to be supplied with 2 reusable infant water chamber;</li> <li>4) Should be supplied with 2 reusable heated wire silicone tubing circuit for infant/Newborn;</li> <li>5) Should be able to deliver CPAP using available patient interfaces nasal prongs/nasopharyngeal prongs;</li> <li>6) For devices based on underwater bubble systems the water chamber should be reusable; to be supplied with 2 reusable water chamber;</li> <li>7) Should be provided pressure release valve at 15cmH<sub>2</sub>O to 17cmH<sub>2</sub>O;</li> </ol> |
| 2.2   | User's interface   | For a flow driving system a pressure display is required<br>Audio visual alarm for low pressure, high pressure, power failure, low O <sub>2</sub> .  |
| 2.3   | Software and/or standard of communication (where ever required)  | NA   |
| 3. PHYSICAL CHARACTERISTICS   |  |  |
| 3.1   | Dimensions (metric)  | NA   |
| 3.2   | Weight (lbs, kg)   | <8kgs  |
| 3.3   | Configuration  | NA   |
| 3.4   | Noise (in dBA)   | <60dB; Alarm > 65dB  |
| 3.5   | Heat dissipation   | Yes  |
| 3.6   | Mobility, portability  | Portable   |
| 4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO <sub>2</sub> .....) |  |  |
| 4.1   | Power Requirements   | 220VAC, 50 Hz  |
| 4.2   | Battery operated   | with at-least 6 hours battery backup   |
| 4.3   | Tolerance (to variations, shutdowns)   | ± 10% of input   |
| 4.4   | Protection   | OVP, earth leakage protection  |
| 4.5   | Power consumption  | <140Watt   |
| 4.6   | Other energy supplies  | electric/battery driven  |
| 5. ACCESSORIES, SPARE PARTS, CONSUMABLES                                      |  |  |
| 5.1   | Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system) | <ol style="list-style-type: none"> <li>1) Each device should be provided with 30 nasal prongs (At least three sizes suitable for neonates weighing &lt;1000grms, 1000-1500grms &amp; &gt;1500grms, 1.5-2.5grms &amp; &gt;more than 2.5grms)</li> <li>2) Air and O<sub>2</sub> hose of 3m length each along with the appropriate socket;</li> </ol>   |

| BIDDING / PROCUREMENT TERMS / DONATION REQUIREMENTS |   |   |
|---|---|---|
| 6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS    |   |   |
| 6.1   | Atmosphere / Ambiance (air conditioning, humidity, dust...)   | 1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.<br>2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. |
| 6.2   | User's care, Cleaning, Disinfection & Sterility issues  | 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.  |
| 7. STANDARDS AND SAFETY                             |   |   |
| 7.1   | Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international | 1) CE ( EU ) notified body<br>2) IEC-60601-1-2:2007; IEC 60601-1-8-2006; IEC 60601-1-SER-Ed 1.0-2011; IEC/TRF 60601-1-8 Ed4.0-2010; ISO 15001-2010 (Anesthetic & respiratory equipment- compatibility with oxygen)  |
| 8. TRAINING AND INSTALLATION                        |   |   |
| 8.1   | Pre-installation requirements: nature, values, quality, tolerance   | electrical sockets; Oxygen supply   |
| 8.2   | Requirements for sign-off   | Supplier to perform installation, safety and operation checks before handover<br>Local clinical staff to affirm completion of installation  |
| 8.3   | Training of staff (medical, paramedical, technicians)   | Training of users in operation and basic maintenance shall be provided<br>Advanced maintenance tasks required shall be documented   |
| 9. WARRANTY AND MAINTENANCE                         |   |   |
| 9.1   | Warranty  | 2 years;  |
| 9.2   | Maintenance tasks   | 1) Maintenance manual detailing;<br>2) Complete maintenance schedule;   |
| 9.3   | Service contract clauses, including prices  | 1) The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached;<br>2) warranty of two years with free servicing ( min. 6) during warranty;   |
| 10. DOCUMENTATION                                   |   |   |
| 10  | Operating manuals, service manuals, other manuals   | Should provide 2 sets (hardcopy) of:-<br>1) User, technical, maintenance and service manuals to be supplied along with machine diagrams;<br>2) List of equipment and procedures required for local calibration and routine maintenance;<br>3) Certificate of calibration and inspection;                |
| 10  | Recommendations for maintenance   | List of important spares and accessories, with their part numbers and cost;   |
| 11. NOTES   |   |   |
| 11  | Service Support Contact details (Hierarchy Wise; including a toll free/landline number)   | Contact details of manufacturer, supplier and local service agent to be provided;<br>Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;   |
| 11  | Recommendations or warnings   | Any warning signs would be adequately displayed   |

**Baby Bassinet (Qty. 7)**

| TECHNICAL                    |   |   |
|------------------------------|---|---|
| 2. TECHNICAL CHARACTERISTICS |   |   |
| 2.1                          | Technical characteristics (specific to this type of device) | Baby Tray with mattress, along with head up/down facility, Mattress density approx 25Kg/m3 and with removable, washable, waterproof cover, mattress cover should be biocompatible and easy to clean.<br>Lower Shelf which is rotatable and swivel castors (100mm) - 2 castors with brake. |

|   |  |  |
|---|--|--|
|   |  | <p>Baby tray should be of poly carbonate/acrylic material.</p> <p>It should not topple on 30 deg inclined plane.</p> <p>Baby bed should withstand upto 10kg weight.</p> <p>It should have provision for baby name identification tag/label.</p> <p>Minimum dimensions of the bassinet mattress should be 20X30" and walls both for the radiant warmer and baby bassinet.</p> |
| 2.2   | <b>Settings</b>  | NA   |
| 2.3   | <b>User's interface</b>  | Care giver should have a clean view of the neonate inside the basinet.   |
| 2.4   | <b>Software and/or standard of communication (where ever required)</b>   | NA   |
| 2.5   | <b>Others</b>  | NA   |
| <b>3. PHYSICAL CHARACTERISTICS</b>                                      |  |  |
| 3.1   | <b>Dimensions (metric)</b>   | 90cm-100cm height, 40cm-70cm width, 70-80cm length   |
| 3.2   | <b>Weight (lbs, kg)</b>  | net weight: 30 kgs with loading capacity to be 10 kg   |
| 3.3   | <b>Configuration</b>   | NA   |
| 3.4   | <b>Noise (in dBA)</b>  | NA   |
| 3.5   | <b>heat dissipation</b>  | NA   |
| 3.6   | <b>Mobility, portability</b>   | yes, on castors  |
| <b>4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2.....)</b> |  |  |
| 4.1   | <b>Power Requirements</b>  | NA   |
| 4.2   | <b>Battery operated</b>  | NA   |
| 4.3   | <b>Tolerance (to variations, shutdowns)</b>  | NA   |
| 4.4   | <b>Protection</b>  | NA   |
| 4.5   | <b>Power consumption</b>   | NA   |
| 4.6   | <b>Other energy supplies</b>   | NA   |
| <b>5. ACCESSORIES, SPARE PARTS, CONSUMABLES</b>                         |  |  |
| 5.1   | <b>Accessories (mandatory, standard, optional)</b>   | mattress   |
| 5.2   | <b>Spare parts (main ones)</b>   | castors  |
| 5.3   | <b>Consumables / reagents (open, closed system)</b>  | NA   |
| 5.4   | <b>Others</b>  | NA   |
| <b>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</b>                 |  |  |
| 6.1   | <b>Atmosphere / Ambiance (air conditioning, humidity, dust...)</b>   | <p>Operating condition:</p> <ul style="list-style-type: none"> <li>- Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances.</li> <li>- An ambient air velocity is less than 0.3 m/s.</li> </ul>  |
| 6.2   | <b>User's care, Cleaning, Disinfection &amp; Sterility issues</b>  | Complete unit to be easily washable using both alcohol and chlorine agents.  |
| <b>7. STANDARDS AND SAFETY</b>  |  |  |
| 7.1   | <b>Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international</b> | ISO 13485/CE certified   |
| <b>8. TRAINING AND INSTALLATION</b>                                     |  |  |
| 8.1   | <b>Pre-installation requirements: nature, values, quality, tolerance</b>   | NA   |
| 8.2   | <b>Requirements for sign-off</b>   | NA   |
| 8.3   | <b>Training of staff (medical, paramedical, technicians)</b>   | NA   |
| 8.4   | <b>Others</b>  | NA   |
| <b>9. WARRANTY AND MAINTENANCE</b>                                      |  |  |
| 9.1   | <b>Warranty</b>  | 2 year   |

|     |  |   |
|-----|--|---|
| 9.2 | Maintenance tasks                          |   |
| 9.3 | Service contract clauses, including prices | warranty of one year with free servicing ( min. 3) during warranty. |
| 9.4 | Others                                     |   |

**Multipara monitor (Qty. -1)**

**Technical specifications for Multi Parameter Monitor**

1. Monitor should be pre-configured/ modularity with flexibility in the connection of across the monitor
2. High resolution, wide viewing angle, TFT color display 12inch. Touch screen preferred.
  - a. Resolution: 800 x 600 dots
  - b. Sweep speed: 6.25, 12.5, 25 or 50 mm/s
  - c. Numeric data display: Heart rate, VPC rate (per minute), ST level, respiration rate, NIBP (systolic, diastolic, MAP), SpO2(Massimo), pules rate, temperature
  - d. Waveform display: ECG (maximum 2 traces), respiration, SpO2, IBP, EtcO2 (mainstream/side stream/microstream) pulse wave (5 waveforms at a time on screen)
  - e. Heart rate sync mark, pulse rate sync mark, respiratory sync mark
3. 7 parameters- ECG, respiration (impedance), SpO2, NIBP, Temperature, 2 x IBP,monitors;
4. Should be able to display PR form SpO2, NIBP.
5. Monitor should have large numeric screen for easy viewing form a distance
6. It should have graded alarms for crisis, warning & advisory.
7. Monitor should have alarm priority and escalation facility.
8. It should have arrhythmia detection facility for standard & extended arrhythmia' of more than 20 types
9. All arrhythmia events should be stored in the memory for more than 200 hrs
10. Should have the facility to review more than 200 hours with 48 hours full disclosure of data of alarm occurrences form the alarm history table.
11. Should have more than 200 hours of trend graphs of all parameters Along with last 96 hrs NIBP data.
12. Should have more than 3 hour battery backup.
13. Should have 3/4 channel thermal array recorder
14. Network capability (LAN/ telemetry)
15. Alarm valume: ECG 45 to 85db

ECG

5- Electrode cable: I, II, III, aVR, aVL, aVF, 2 from V1 to V6 (3 lead ECG to be provided)

ESU protection should be provided

Pacing pulse detection: on/off

ST level measurement: on all leads. Measuring range: +/- 2.5 mV, along with ST map for ST

Segment representation in early readable graphical form

Respiration (impedance method)

**Measuring method:** transthoracic impedance pneumography.

Number of channels: selectable from R-L and R-L/ Automatic

Apnea alarm: setting range: 5 to 40 s in 5 s step

SpO2 Massimo

Measuring range: 0 to 100% SpO2

Pulse rate counting range: 30 to 300 beats/ min and

probes for pediatric and neonatal (1 each)

#### **NIBP**

Measuring method: Oscillometric

Cuff pressure display range: 0 to 30 mmHg

Accuracy: ±3 mmHg

Measurement mode: Manual, STAT, Periodic and BP

cuff for pediatric and neonatal (1 each)

#### **Recorder**

Recording method: Thermal array recording

Number of channels: 3 (maximum)

Paper speed: 12.5, 25, 50 mm/sub

Electromagnetic compatibility

IEC 60601-1-2: 2001

IEC 60601-1-1-2 Amendment 1: 2004

European CE Approved product (from Notified Body)

Should be supplied with 1 set of accessories

**Fogging machine (Qty. 1)**



**Technical specifications:**

1. Consistent particle size generation : 0.3-1 micron
2. Reach : 40-45 ft & height cover
3. Space treatment : upto 1200-15000 Cu. Ft
4. Chemical fogged : all water based disinfectant
5. Motor: 26000 RPM, double stage with tapered fans.
6. Motor safety: thermal overload protection for safety against motor burn due to overheat
7. Input power: 220v AC , 5-6Amp., 50Hz
8. Nozzle assembly : 304 stainless steel & non clogging vertex design.
9. Power head : high grade engg. Plastic & unbreakable
10. Solution tank: 5 liters (MOC-HDPE) with gradual marking / ss304 tank available (optional)
11. Stainer & handle : stainless steel 304
12. Precision metering systems : discharge capacity 0-90ml/min
13. Intake air filter: suitable design with double layers for primary & secondary filtration to prevent entry of dust/ dirt & moisture from the air
14. Empty weight : 5Kg

**Note: ± 5% deviations are accepted as per terms and conditions**

| SR NO | DESCRIPTION   | UNIT | QTY |
|-------|---|------|-----|
|       | Bidder/Distributor/manufacturer should quote for complete turn key project as per below specifications  |      |     |
| 1     | <b>NICU ISOLATION 8X8:</b> Nicu Isolation Room Should be 8x8 with negative Pressure Produces Which isolation other from Infection.  | NOS  | 1   |
| 2     | <b>NICU STORE :</b> Room Should be 100 sqft Used For Storing of NICU material with Antimicrobial Cladding   | NOS  | 1   |
| 3     | <b>NURSE CHANGE :</b> To change the Cloth facility for nurses room shuld be 6 x 6 ft. Provisions for hanging patients' clothing and securing valuables, if these are not to be kept with the patient, should be considered either within this room (if lockable) or in shared secure storage or dedicated patient locker.Cladded with Antimicrobial | NOS  | 1   |
| 4     | <b>MOTHER CHANGE:</b> room should be provided to change dresses for mother of intent before feeding . Room size should be 6 x 6 ft.   | NOS  | 1   |
| 5     | <b>BREAST FEEDING:</b> room should be size of 100 SQFT for mother breast feeding. A breastfeeding room should be a clean, comfortable, safe and a private space for women. The main function is for mothers to effectively express and store milk during working hours.   | NOS  | 1   |
| 6     | <b>NEONATOLOGIST:</b> to seat and paper work neanalogolist 80 SQFT separate room,   | NOS  | 1   |
| 7     | <b>DIRTY UTILITY :</b> room size should be 100 SQFT minimum for utility material.A sluice room (often referred to as a dirty utility room) is a closed room found in healthcare facilities such as hospitals and nursing homes, that is specifically designed for the disposal of human waste products and disinfection of associated items.        | NOS  | 1   |
| 8     | <b>BMW STORAGE:</b> room should be 80 SQFT . Biomedical waste (BMW) is any waste produced during the diagnosis, treatment, or immunization of human or animal research activities pertaining thereto or in the production or testing of biological or in health camps.  | NOS  | 1   |
| 9     | <b>WAITING AREA ( OPTIONAL )</b>  | NOS  | 1   |

|      |   |     |     |
|------|---|-----|-----|
| 10   | <b>SCRUB AREA :</b> Two bay scrub for scrubbing before entering in NICU. Cleanliness and convenience are attracting an increasing number of patients, and this can only be accomplished by providing resources and facilities that stand the test of time and quality. The raw materials used meet the most up-to-date technology and quality criteria. These can be employed in ICUs, wards, OT, and other medical domain operational areas.   | NOS | 1   |
| 11   | <b>ICU CURTAIN :</b> ICU curtains provide the best privacy and operational flexibility thanks to the highest quality raw material and robust design. These curtains can be utilized in clinics and nursing homes in addition to ICUs. The curtain should be results in a stain-free curtain system that may be used in a variety of interior situations.. ICU curtains are available in various straight, curved, and bespoke setups, fabrications, and specifications to meet individual needs. These are anti-static drapes that are also water-resistant. Hospital curtain track installation has been devised and constructed with simple procedures in mind.   | NOS | 20  |
| 12   | <b>AHU as required</b><br>Standard Air Handling Unit with VFD compatible Motor: Double skin air handling units fabricated from outer skin with 0.55 mm thick pre-coated G.I sheet & plain 0.55 mm thick inner G.I sheet with 45 mm thick insulated Panel with Thermal Break Aluminum Extruded frame work.<br># Static pressure will be 125mm w/c.<br># CG/SIEMENS/ABB /Hindustan/Belemo Motor 2 poles 5HP @2800 RPM, EFF-II Grade motor (non-FLP) 3 Ph., Squirrel cage, Foot Mounted, TEFC, IP 55, 415 V.<br># 16Gauge thick construction of 100mm base with Aluminium dies cast corner.<br># 6 Row Deep Chilled Water Cooling coil 11TR .<br># Mixing Chamber for Return Air & Fresh Air with airfoil Aluminium damper<br># Pré-filter section (Before Coil) with 10-micron flange type Non-Woven Synthetic media filter.<br># Fine-filte section (post filter/after blower) with 3-micron flange type Non-Woven Synthetic media filter.<br># Fan section with Rosenberg/Kruger Make Direct driven/Belt Driven backward curve blower               | NOS | 2.0 |
| 12.A | <b>AHU NICU complex as required</b><br>Standard Air Handling Unit with VFD compatible Motor: Double skin air handling units fabricated from outer skin with 0.55 mm thick pre-coated G.I sheet & plain 0.55 mm thick inner G.I sheet with 45 mm thick insulated Panel with Thermal Break Aluminum Extruded frame work.<br># Static pressure will be 80mm w/c.<br># CG/SIEMENS/ABB /Hindustan/Belemo Motor 2 poles 5HP @2800 RPM, EFF-II Grade motor (non-FLP) 3 Ph., Squirrel cage, Foot Mounted, TEFC, IP 55, 415 V.<br># 16Gauge thick construction of 100mm base with Aluminium dies cast corner.<br># 6 Row Deep Chilled Water Cooling coil 11.5TR .<br># Mixing Chamber for Return Air & Fresh Air with airfoil Aluminium damper<br># Pre-filter section (Before Coil) with 10-micron flange type Non-Woven Synthetic media filter.<br># Fine-filte section (post filter/after blower) with 3-micron flange type Non-Woven Synthetic media filter.<br># Fan section with Rosenberg/Kruger Make Direct driven/Belt Driven backward curve blower | NOS | 1.0 |
| 13   | <b>Condensing Unit:- as per NICU requirements</b><br>Condensing unit with Denfoss/Copland or equivalent compressor, interconnecting copper piping, associated accessories like expansion valve, drier, hand shut off valve etc.   | NOS | 4.0 |
| 13/A | <b>Condensing Unit - as per NICU requirements</b><br>Condensing unit with Denfoss/Copland or equivalent compressor, interconnecting copper piping, associated accessories like expansion valve, drier, hand shut off valve etc.   | NOS | 1.0 |
| 14   | <b>Copper Piping:</b><br>7/8 X 1/2/ 20 Gauge Copper tube piping with nitrile rubber insulation and Brazing rod.   | Lot | 1.0 |
| 15   | <b>AHU Electrical Control panel with VFD:</b> AHU's PCGI 1.2mm thick sheet constructed Electrical panel with VFD Schneider make contactor, MCB, Relay & other controller, GIC/L&T Make Phase preventer, Minilec/Solectron make Timer & TC (UL app.) make failure & other indicator.   | NOS | 3.0 |

|    |  |      |       |
|----|--|------|-------|
| 16 | <p><b>Sheet Metal ducting works:</b><br/>Ducts shall be made of GSS with curves &amp; bends where indicated for easy flow of air an ensured to be air tight by applying silicon sealant after fabrication hangers shall be provided to GI ducts &amp; shall be suspended by means of MS black painted rods. Hangers shall be not more than 2.5 m apart. 24 Gauge (0.63 mm)</p> <p><b>Thermal Insulation with 13 mm thick For Supply Air Duct</b><br/>Cross link polyethylene for supply air duct. Joints will be lapped with Nitrile tape for better thermal insulation.<b>Thermal Insulation with 9 mm thick For Return Air Duct</b><br/>Cross link polyethylene for Return air duct. Joints will be lapped with Nitrile tape for better thermal insulation. Make /Jindal/Tata/Essar<br/><b>AS PER ACTUAL SIDE MEASURMENT .</b></p> | Lot  | 1.0   |
| 17 | <p><b>Hepa Housing Terminal Box 2X2:</b><br/>Aluminium 1.5mm thick HEPA Filter mounting, SS304 perforated sheet and Top body construction with Flange<br/># Global / Fine airsys eqv makes HEPA Filters (EU- 14 Standard) , 99.99 Efficiency @ 15mm W/C IPD and 35mm W/C FPD. Knife edge mouting arrangement.<br/># Face velocity 90-110FPM @ Grill level and design to meet class 100 (ISO-5) @ grill level , class 10000 on OT Table and class 100000 at rest of the OT<br/># SS304 Filter mounting studs with J hook<br/># SS304 CSK Bolts, Zinc coted MS Ceiling Mounting Anchor fastener &amp; 12mm threaded rod and L angle.</p>   | NOS  | 12.0  |
| 18 | <b>Supply &amp; Return Air Grill With SS/304 Perforated Sheet With Damper - NICU complex</b>   | NOS  | 12.0  |
| 19 | <p><b>Internal Cable Work:</b><br/>Electrical panel to AHU and outdoor unit 4 core 2.5 mm copper armed cable control cable 1.5mm 3core flexible cable ot room control make polycab flexible And Armed cable.</p>   | LOT  | 3.0   |
| 20 | <p><b>Riser Module Filter and Grill:</b><br/>Supply, Installation, Testing and commissioning of Return Air Riser with Pre filters 10 Micron SS/304 Perforated Grill along with volume control damper and suitable of final Return air riser sizes.</p>   | NOS  | 12.0  |
| 21 | <p><b>ANTIMICROBIAL ENGINEERED CLADDING SYSTEM on walls</b><br/>Antimicrobial silver ion should be impregnated into the hygienic cladding panels at the time of manufacture. This helps stop the growth of bacteria and mould which works continuously for the lifetime of the panels, reducing levels of bacteria such as MRSA, E Coli, Legionella, Salmonella and mould (including Aspergillus Niger) by up to 99.99%.</p>   | sqmt | 600.0 |
| 22 | <p><b>ANTIMICROBIAL ENGINEERED CLADDING SYSTEM on ceiling</b><br/>Antimicrobial silver ion should be impregnated into the hygienic cladding panels at the time of manufacture. This helps stop the growth of bacteria and mould which works continuously for the lifetime of the panels, reducing levels of bacteria such as MRSA, E Coli, Legionella, Salmonella and mould (including Aspergillus Niger) by up to 99.99%.</p>   | sqmt | 350.0 |
| 23 | <p><b>Ceilling Panels False with Coving as required</b><br/>False ceiling of galvanized steel backed by calcium silicate board</p>   | SQFT | 382.0 |
| 24 | <b>Antibacterial paints</b>  | LOT  | 1.0   |
| 25 | <b>Vinyle Anti Static flooring :</b> Supply & Installation of Anti Static seamless flooring system,2mm thick , with perfectly curved flush coving ,and Copper Tape all joints welded properly (Roll or tile).  | Lot  | 1.0   |
| 26 | <p><b>Self Levelling for above Flooring:</b><br/>Epoxy based self-levelling - 2 to 3mm for laying the Vinyl flooring</p>   | Lot  | 1.0   |
| 27 | <p><b>Hermetically sealed automatic sliding door of Size:- 1500x2100mm</b><br/>can withstand upto 100 Pa overpressure and noise insulation of 28dB.<br/>Thickness of door panel is 60mm with 4 mm thick High pressure laminate (HPL ) inside &amp; outside Puff sandwich of 52 mm.Special grade self lubricating roller with</p>   | NOS  | 2.0   |

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|    | <p>double ball bearings and removable EPDM sealing gasket fitted to the vertical profile and top rail of the door leaf. Sandwich construction of door skin consists of high pressure laminates conforming to EN 438-3:2005.</p> <p>Door profile construction comprises of aluminum alloy, grade 6063, 300X300</p> <p>Vision panel is made of insulated glass unit flushed with door surfaces, Solid AISI304 grade SS lever handle for effortless manual operation in case of power failure or D-Type handle. It comes with microprocessor based power failure or D-Type handle. It comes with microprocessor based controller (SDA-04), CE marked, 90W AC motor, IP65 protection class (CE marked). AISI304 grade SS foot switch, magic switch and elbow switch with high quality inductive sensors.</p> |     |      |
| 28 | <p><b>BIODOOR</b></p> <p>a) Single Door</p> <p>b) Door Size: 1000x2100mm</p> <p>c) Thickness 45mm</p> <p>d) Vision panel - 300x300mm</p> <p>e) Shutters with frame clad with antimicrobial engineered plastic sheets</p> <p>f) Flush Door</p> <p>g) Available in different colours</p> <p>h) Swing door</p> <p>i) Accessories:hinges, door closer, lock, fire retardant seal</p>   | NOS | 5.0  |
| 29 | <p><b>BIODOOR</b></p> <p>a) Single Door</p> <p>b) Door Size: 750x2100mm</p> <p>c) Thickness 45mm</p> <p>d) Vision panel - 300x300mm</p> <p>e) Shutters with frame clad with antimicrobial engineered plastic sheets</p> <p>f) Flush Door</p> <p>g) Available in different colours</p> <p>h) Swing door</p> <p>i) Accessories:hinges, door closer, lock, fire retardant seal</p>  | NOS | 9.0  |
| 30 | <p><b>Glass Partitions:</b></p> <p>Supply of 6 mm toughened glass .</p>  | Lot | 1.0  |
| 31 | Room / Ambient Light   | NOS | 50.0 |
| 32 | Control Panel - Temperature , Pressure , Light control & Clock   |     | 3.0  |
| 33 | <b>OXYGEN SYSTEM as required</b>   | LOT | 1    |
|    | <b>NITROUS OXIDE SYSTEM as required</b>  | LOT | 1    |
|    | <b>COMPRESSED AIR SYSTEM as required</b>   | LOT | 1    |
|    | <b>VACUUM SYSTEM as required</b>   | LOT | 1    |
| 34 | <p>Turnkey work : Removal of existing Tiles, glass panes/frames ,aircon, plumbing and electric system.</p> <p>Leveling of floor and walls.</p> <p>Bidder/Distributor should provide manufacture authorization letter with tender number for equipments</p>   |     |      |

Consignee Details

|  |   |      |
|--|---|------|
| M/s. Hansraj Nayyar Medical India Pvt. Ltd.,   |   |      |
| Modular Neonatal Intensive Care Unit<br>Make: Nasal CPAP – nCPAP300<br>Model : PHOENIX |   |      |
| Delivery Period  | 12 weeks  |      |
| PO Ref. No.  | No.: 7958 /Haffkine/Procurement Cell/RT-4915/ Modular Neonatal Intensive Care Unit/2022-23.<br>Date: 29/11/2023 |      |
|  | दि: ०१.०६.२०२१ प्रशासकीय मंजूर निधी (प्रतिनग) २,३२,७०,२५६/- (जिल्हा नियोजन समिती २०२१-२२)<br>(Qty.- १)          |      |
| Sr. No.  | Name & Address of the Consignee   | Qty. |
| 1)   | Cama & Albless Hospital, Mumbai   | 01   |
|  | Total   | 01   |

या. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

  
General Manager

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

