

**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	
दि: ०३.१२.२०२१ प्रशासकीय मंजूर निधी २,६०,००,०००/- (२०२१-२२) (Qty.- २६०)	No.: 7961 /Haffkine/Procurement Cell/ RT-4468/ Radiant Heat Warmer/ 2023-24. Date: 17.01.2024

To,

M/s. Phoenix Medical Systems Pvt. Ltd.,

DP-42-Sidco, Industrial Estate,

Thirumudivakkam, Chennai-132.

Contact No. 7358194400/9380676614.

E-Mail: sales@pmsind.com/ tenders@pmsind.com/
phoenix.sales@pmsind.com**Subject : Supply Order for Tender No. RT- 4468/ Radiant Heat Warmer****Reference: 1. Tender No. RT- 4468/HBPCL/PC/ Radiant Heat Warmer/2022-23.****2. शासननिर्णय, क्रमांक- यंत्रख.२०२१/प्र.क्र.२०८/प्रशा-१
दिनांक : ०३ डिसेंबर, २०२१.****3. Sanction of Tender Approval Committee Meeting No. 181****Date : 18.07.2023.**

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	Radiant Heat Warmer Make & Model : NWC 100	As per Annexure X	260	1,08,000/-	2,80,80,000/-

Total amount in words: Rupees Two Crore Eighty Lakh Eighty Thousand Only.**Factory Location: S55, 5th Cross Street, SIPCOT Industrial Estate, Vengadu Village, Pillaipakkam, Sriperumbudur- 602105.**

- 1 Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- 2 Delivery Period:** 06 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.

- 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 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


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: As Per Consignee List: 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.

1. USE

1.1 Clinical Purpose

Infant Radiant Warmer is an electrically powered device with a radiant heating source intended to maintain the thermal balance of an infant electromagnetic spectrum.

1.2 Used by clinical department/ward

Neonatal ICU (NICU)

TECHNICAL

2. TECHNICAL CHARACTERISTICS

2.1 Technical characteristics (Specific to this type of device)

1. It should be microcontroller base radiant warmer with manual and servo options.
2. It should have facility to display skin set, skin observed temperature in degree C and heat power separately
3. Should have user friendly touch panel control.
4. It should have quartz infrared or cal rod heater placed in a reflector. Heater unit should be made of FRP material.
5. It should have audio visual alarm facility for overheating beyond set temperature range and automatic cut-off of heater at 38°C
6. It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above or below the set range. Machine should sense the skin probe failure and cut off the heater.
7. Warmer head should be rotatable in different direction (at least 60 degree), so as to allow taking X-ray.
8. It should have alarm for probe failure, power failure, system failure and heater failure.
9. Observation light of 90 to 100 foot candles or 1000 Lux (color temperature range 3700K to 5100K) should be provided for Inspection
10. Battery back up for Power failure indication during power fail.
11. The desired temperature range from 15 to 40 degree C and settable temperature can be from 32 to 38 degC.
12. The resolution should be 0.1 degree C and accuracy should be ±0.2 °C probe interchangeability should be ± 0.2°C.
13. Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters.
14. It should have in built /integrated Oval shape bassinet-trolley, bed should be tiltable (gas spring) and have provision for x-ray cassette holder, Mattress foam density should be minimum 25 kg/cm³ or more , transparent collapsible side walls easily detachable for cleaning. Mattress size should be minimum 700 x 600 mm (LXW), Oval shape for easy access..
15. Should have a Feather Touch operation with large digital display and comprehensive alarms. Control Panel should be liquid proof and allow easy and hygienic disinfection.
16. Manual Mode can adjust Heater Output 10-100 %, with 10% Increment; an auditory and visual alarm shall be given at least every 15 min.
17. In manual mode, heater cut off / switch off, if the maximum irradiance at any point of the mattress area exceeds a total Irradiance level of 10 mW/ cm² (between 10 to 30 minutes).
18. Bed should be about 80- 100 cms from the Floor and 80-

		<p>Ident from the heat source.</p> <p>19. Should have lockable castor wheels.</p> <p>20. Green Indicator light shall be provided to indicate that warmer is ready for normal use.</p> <p>21. Markings on the bassinet and X-Ray cassette holder are mandatory to enable proper positioning of the baby while doing the XRay.</p> <p>22. The size of the drop down sides should be such that it is 5 above the mattress surface and should be at least 6mm thick; clear and transparent. Drop down side panels mounted on fixed threaded frame with removable knobs/ caps, Panel should be Polycarbonate Material.</p> <p>23. If there is more than 60% heater output for 10 minutes it should cut off with alarm.</p> <p>24. For the purpose of cable management there should be at least two number of tubing ports (edges covered by silicon rings) on the side walls. The height of the side walls should be minimum 110mm over the Mattress.</p> <p>25. X-Ray cassette tray should be at least 750x350mm and should adopt up to 20mm thick X-Ray cassette.</p> <p>26. The bay bed should be crevice free for ease of cleaning, infection control.</p> <p>27. The mattress used should be of Biocompatible material.</p> <p>28. Thermistor based skin temperature probe should be small in size not more than 10mm diameter and 3-4mm thick to fix the probe firmly on the infant. Baby contact material should be biocompatible as per ISO 10993 Standard requirement. It should be insulated on one side and have well conducting nonrusting, non-reacting metallic surface on the other side. Probe wire should be Pliable, thin and soft. The attachment site of the probe with the wire should also be pliable and non-stiff.</p> <p>29. In servo/ baby mode, if probe is dislocated from baby and if there is no rise in baby temperature more than 1°C within 5 minutes there should be both audio and visual alarm.</p> <p>30. Time out alarm (manual mode automatic reduction of heater output at 10 minutes)</p> <p>31. Motorized variable height adjustment mechanism to adjust the height as per the user's convenience and can be operated from both sides</p> <p>33. The heater unit should swivel away for accommodating an X-ray unit and the bed should have x- ray cassette holder that can be accessed without disturbing the baby</p>
2.2	Settings	<p>1. Should have Manual mode and Baby(Servo) mode settings.</p> <p>2. Mode of operation should be clearly displayed.</p> <p>3. In servo mode baby set temperature should be 32 to 38 deg</p>
2.3	User's interface	Manual and Servo controlled temperature regulation.
2.4	Software and/ or standard of communication	LED Display and inbuilt software; Interruption and restoration of the power supply does not change the preset values. Temperature display should be bright one inch numerical LED for displaying in for temperature and bright 0.5 inch numerical LED for display set temperature.
2.5	Others	1. Device shall not overbalance when placed in any transport position of normal use on a 10 inclined plane from the

		<ol style="list-style-type: none"> Temperature of the baby warmers should not exceed 11 deg C when the warmer is operating. 40W/1-10W/15 temperature condition Temperature of HEATTR GUARDS should not exceed 35 °C in normal use. The temperature differences on the mattress shall not exceed 2°C Drop down side walls (Bassinet) for easy access Bed can be swivable on both sides of vertical column of 1/- 60 deg to facilitate intubation/ resuscitation
3.1	Dimensions (metric)	specifications upto: (1750x 720x 1900) mm) with +/- 10 % variations accepted.
3.2	Weight (lbs,kg)	maximum spec: Less than 100 Kg
3.3	Configuration	<ol style="list-style-type: none"> Atleast 60° degree angle adjustment must be possible in the heat source and it should provide shielding to the Infant in case of breakage of tubes/bulbs. All surfaces to be made of corrosion resistant material/FRP Bassinet angle turn shall be possible at least ±12° deg. (to allow for procedure) Alarm Audio Visual, user settable (volume 50dB) Facility to mount at least three syringe pump, or (infusion pump) and One Table Top Monitor so as to carry at least 15 kg supplied with Sanitizer Stand (55 Material) to be able to be mounted on side panel to support 500 ml bottle. APGAR timer with count up time to be provided
3.4	Noise (in dBA)	Auditory alarm shall have a sound level of at least 65 dBA at a distance of 3 m from the front of the infant radiant warmer, and the sound level of the alarm shall not exceed 80 dBA on the mattress
3.5	Heat dissipation	Should maintain upto 36.5 deg temp and the heat disbursed through a exhaust fan, so that effect of UV light is not disturbed
3.6	Mobility, portability	Yes, on castors (2 of the castors should have breaks; casotor size can be at least 4inch).
4. ENERGY SOURCE(UPS, solar, gas, water, CO2)		
4.1	Voltage (Value, AC or DC, monophase or triphase)	220 to 240V, 50 Hz
4.2	Battery operated	Power failure Indication during power fail.
4.3	Tolerance (to variations shutdowns)	10% of input
4.4	Protection	OVP, earth leakage protection.
4.5	Power consumption	maximum 800 Watt
4.6	Other energy supplies	
5.ACCESSORIES,SPARE PARTS,CONSUMABLES		
5.1	Accessories & Spares	<ol style="list-style-type: none"> Should have standard IV pole(sturdy; non rusting; medical grade stainless steel;adjustable to a max height of 6 feet from the ground level). monitor tray 12X10 inches;270 deg swivel;

		fixed at level of warmer display) and storage trays 2. The system should operate without a need for voltage stabilizer and with stand voltage fluctuations up to maximum of 270V else a voltage stabilizer should be provided
5.2	Spare parts (main ones)	1. Skin temperature probes, 2. Additional 3 temp probes with each Machine
	Consumable/reagents (Open, closed system)	Thermal refeletor to fix the skin probe on baby.
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	Operating condition: - Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. - an ambient air velocity is less than 0.3 m/s.
6.2	User's care, cleaning, Disinfection & sterility issues	Complete unit to be easily Cleanable and Sterilizable using both alcohol and chlorine Agents
7.1	Certifications	Should be US FDA/CE (EU Notified Body with 4 digit number approved product)
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Availability of 5 amp/15Amp. Electrical Socket (2 nos
8.2	Requirements for signoff	Certificate of Calibration and inspection from the factory.
8.3	Training of staff (medical, paramedical, technical)	User training manual required
8.4	Others	List of important spare parts and accessories with their part number and costing
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	Nickel chrome wire filament and tube of quartz should have a life time warranty ; equipment 2 years
9.2	Maintenance tasks	Maintainance manual detailing complete maintaining schedule
9.3	Service contract clauses, including prices	Warranty of Two year with free servicing (min.3) during warranty
		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.
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	To be supplied
10.2	Other accompanying documents	User / Technical / Maintenance manuals to be supplied in English
11. NOTES		
11.1	Other information	Should provide complete contact details of sales and service departments
11.2	Recommendations or warnings	Any warning/ precautions to be declared

Consignee Details

M/s. Phoenix Medical Systems Pvt. Ltd.,

Radiant Heat Warmer
Make & Model : NWC 100.

Delivery Period 06 weeks
PO Ref. No.: 7691 /Haffkine/Procurement Cell/RT-4468/ Radiant Heat Warmer / 2023-24.
No. Date: 11-01-2024
दि. ०३.१२.२०२१ प्रशासनात्मक मंजूर तिथी २,६०,००,०००/- (२०२१-२२) (Qty.- २६०)

Sr. No.	Name & Address of the Consignee	Qty.
1)	St. George Hospital, Mumbai.	10
2)	Government Medical College & Hospital, Nanded.	20
3)	Government Medical College & Hospital, Solapur.	10
4)	Government Medical College & Hospital, Akola.	10
5)	Government Medical College & Hospital, Aurangabad.	00
6)	Government Medical College, Aurangabad.	22
7)	Government Medical College & Hospital, Gondia.	10
8)	Government Medical College & Hospital, Jalgaon.	20
9)	Government Medical College & Hospital, Miraj.	08
10)	Government Medical College & Hospital, Nagpur.	10
11)	Government Medical College & Hospital, Baramati.	12
12)	Indira Gandhi Government Medical College & Hospital, Nagpur.	10
13)	Government Medical College & Hospital, Kolhapur.	20
14)	Government Medical College & Hospital, Dhule.	00
15)	Government Medical College & Hospital, Yavatmal.	50
16)	Government Medical College & Hospital, Ambajogai.	20
17)	Government Medical College & Hospital, Latur.	08
18)	B. J. Government Medical College & Sasoon Hospital, Pune	15
19)	Government Medical College & Hospital, Chandrapur	05
	Total	260


General Manager

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