Bid Number: GEM/2020/B/710111
Dated: 14-07-2020

Bid Document

Bid Details	
Bid End Date/Time	24-07-2020 16:00:00
Bid Opening Date/Time	24-07-2020 16:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	45 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Northern Railway
Organisation Name	Stores
Office Name	Northern Railway
Total Quantity	1
Item Category	Clinical incubators or infant warmers
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No

ePBG Detail

Required	No

Splitting

Bid splitting not applied.

Clinical Incubators Or Infant Warmers (1 pieces)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Definition and Clinical Purpose	Definition	Mains electricity (AC-powered) mobile device that contains an infrared (IR) heating element(s) designed to emit controlled, evenly distributed overhead heat to the body of a newborn/infant patient requiring supplemental heat. This device is equipped with wheels so that it can easily be moved to different areas of a room, ward, or department.	*
	Clinical purpose &Overview of functional requirements	It is an electrically powered device with a radiant heating source intended to maintain the thermal balance of an infant by direct radiation of energy in the infrared region of the electromagnetic spectrum. It is a microprocessor controlled unit with heater placed on the over head panel. This work on both servo and manual mode options to maintain the baby temperature at the set value. There are two modes of operation manual and baby (servo) mode. It has Digital displays reading the set and baby observed temperatures seperately.	*
Technical Characteristics (specific to this type of device)	facility to display skin set, skin observed temperature in degree C and heat power separately	Yes	*
	have user friendly touch panel control	Yes	*
	Type of heater:	ceramic	ceramic
	Audiovisual alarm facility for:	Overheating beyond set temperature	Overheating beyond set temperature range,

	range,Spurt in Heater output i.e. more than 60% heater output for 10 minutes system should raise alarm and cutoff heater,Power failure,Heater failure,Patient temperature less/Greater than required/set temperature,Probe failure	Spurt in Heater output i.e. more than 60% heater output for 10 minutes system should raise alarm and cutoff heater, Power failure, Heater failure, Patient temperature less/Greater than required/set temperature, Probe failure
Warmer head should be rotatable in different direction, so as to allow taking X-ray	Yes	Yes
Observation light Luminance and Colour temperature	> = 1000 Lux , Colour temperature range from 3700K to 5100K	*
Battery back up facility for Power failure indication during power fail	Yes	*
desired temperature range	25 to 40 degree C	*
setable temperature 32 to 38 deg C	32 to 38 deg C	*
temperature resolution should be:	<= 0.1 degree C	*
Temperature accuracy should be	<= 0.2 degree C	*
facility to lock the keyboard to avoid unwanted user modification of the set parameters	Yes	*
should have separate Bassinet trolley, bed should be tilt-able and have suitable provision for x-ray cassette holder, Mattress foam density should be minimum 25 kg/cm3, transparent collapsible side walls easily detachable for cleaning	Yes	*
Should have a Feather Touch operation with large digital display	Yes	*

	and comprehensive alarms, Control Panel should be liquid proof and allow easy and hygienic disinfection		
	Manual Mode can adjust Heater Output 10 -100 %, with 10% increment, an auditory and visual alarm shall be given at least every 15 min	Yes	*
	Under 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)	Yes	*
	Bed height from Floor	-	*
	Bed Distance from the heat source	-	*
	should have lockable castor wheels	Yes	*
	Green indicator light shall be indicate that warmer is ready for normal use	Yes	*
	Markings on the bassinet and X-Ray cassette holder to enable proper positioning of the baby while doing the X-Ray	Yes	*
	Number of tubing ports (edges covered by silicon rings) on the side walls (For cable management)	3.2	*
	Height of the side walls over the mattress	111.23	*
	Provision of X-Ray cassette tray of at least 750 mm X 350 mm size, suitable to adopt <= 20mm thick X-Ray cassette	Yes	*
	bay bed should be crevice free for ease of cleaning, infection	Yes	*

	control		
	mattress used should be of biocompatible material	Yes	*
	Skin temperature probe should be small in size [Diameter <= 10 mm & Height <= 4 mm] with biocompatible Baby contact material	Yes	*
	Mobility, portability	On castors (2 of the castors should have brakes) & Castor size >= 4 inch.	*
Settings	Settings with facility to clearly display the selected mode,Option of Selecting either Manual mode and Baby (Servo) mode settings, Provision for Set temperature range (in servo mode) from 32 to 38 deg C	Yes	*
	User's interface	Manual and Servo controlled temperature regulation	*
	Software and/or standard of communication(where ever required)	LED Display and inbuilt software; Interruption and restoration of the power supply does not change the preset values	*
	Others:	1. Device shall not overbalance when placed in any transport position of normal use on a 10° inclined plane from the horizontal plane. 2. Transformers of devcie shall be protected against overheating in the event of short circuit or overload of any output winding. 3. Patient leakage current should be less than 100 µA in normal condition 4. Temperature on the baby mattress should not exceed 43 deg C when the warmer is operating under steady	*

		temperature condition 5. Temperature of HEATER GUARDS should not exceed 85 °C in normal use. 6. The Temperature differences on the mattress shall not exceed 2 °C.	
PHYSICAL CHARACTERISTICS	Overall Height of equipment	1950	*
	Overall Width of equipment	-	*
	Overall Length of equipment	-	*
	Overall weight of equipment	-	*
	Heat source Configuration	>= 60 degree angle adjustment must be possible in the heat source, it should provide shielding to the infant in case of breakage of tubes/bulbs and all surfaces to be made of corrosion resistant material	*
	Noise	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	*
	Heat dissipation	Should maintain desired set temperature and uniform heat distribution in baby cradle	*
ENERGY SOURCE	Power Requirements	220 to 240V, 50 Hz AC, ± 10% of input	*
	Battery operated	Power failure indication during power fail	*
	Protection	OVP, earth leakage protection	*
	Power consumption	220	*
	Compatible to	Yes	Yes

	alternate energy supply source; Solar Heating in addition to AC power source):		
	Thermal reflector to fix the skin probe	>= 50 units to be supplied with each equipment unit	*
ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS	Atmosphere / Ambiance	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.	*
	User's care, Cleaning, Disinfection & Sterility issues	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.	*
STANDARDS AND SAFETY	Certificates,	-	*
	Performance and safety standards (specific to the device type); Local and/or international	IEC-60601-1-2:2007 Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility -Requirements and tests (Or Equivalent BIS). Shall neet IEC 60601 -2- 21: 2009 Medical Electrical Equipment - Part 2¬21: Particular Requirement for the basic safety and essential performance of infant radiant warmers . should meet IEC 60601-1:2005(or latest) standard requirements. Baby contact material should be biocompatible. Manufacturer should be ISO 13485 certified	*
	Availability of Type Test report from any Govt/ NABL accredited /iLAC approved	Yes	*

	laboratory (To be produced by Seller on Buyer's demand if indicated available)		
TRAINING AND INSTALLATION	Pre-installation requirements for the equipment	Availability of 5 amp/15 Amp. Electrical socket (2 nos) for each warmer at Buyer's facility.	*
	Documentation required to be provided by Seller:	User & Operating manual,Certificate of Calibration, Factory inspection report, user training manual	*
WARRANTY	Warranty Scope	Shall be onsite and comprehensive i.e. with free service and spares	*
	Warranty period for equipment(Other than nickel chrome wire filament and tube of quartz, that shall have lifetime warranty)	3	3, 5 Or higher

* Specifications highlighted in bold are the Golden Parameters.
* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Durga M Sardar	110055,CENTRAL HOSPITAL NDLS	1	15

Bid Specific Additional Terms and Conditions

1. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

This Bid is also governed by the General Terms and Conditions

---Thank You---