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F-8() RMSC/EPM/M-2/NIB-498/2020-21/ 5014 Dated: 05/10/2020

Clarification/Corrigendum/Addendum

Subject:- Revised Technical Specification for NIB No. F-8() RMSC/EPM/M-2/NIB-498/2020-21/4763 dated 27.08.2020 for item ICU's on Turnkey basis.

In reference to subject cited above of NIB-498, various representations received from the firms and issues raised by the bidders are being examined by authorities and technical committee. The following corrigendum/addendum is issued for inclusion in bid document as below:-

1. **Revised/Amended Technical Specifications** :-

Group A	Group B
1. ABG Machine	1. Bedside Locker
2. Central Monitoring System with Software	2. Cardiac Table (Over bed table)
3. Defibrillator	3. Crash Cart
4. 12 Channel ECG Machine	4. Dressing Trolley
5. Intensive Care Unit Bed – Motorized	5. Laryngoscope (Adult)
6. Oxygen Concentrator	6. Nebulizer
7. Multi Para Monitor	7. Patient Stretcher Trolley
8. 100mA High Frequency Mobile X-Ray Machine	8. Pulse Oxymeter(Fingertip)
9. Portable Multipara Monitor	9. Electrical Suction Machine
10. Syringe Pump	10. Wheel Chair
11. BIPAP Machine	11. X-Ray-View Box
12. Video Laryngoscope	12. Cubicle/ Privacy Curtains for ICU
	13. Adult Resuscitation Kit
	14. Glucometer
	15. Infrared Thermometer
	16. Electrical Instrument Sterilizer
	17. Vein Detecting Transilluminator/Device
	18. Medical Gas Pipe line System

Technical Specifications of ICU Equipments:

Group-A

Item No.1: ABG Machine

1. Blood Gas Analyzer for the measurement of pH, pO2, **THB, Saturated Oxygen (SO2),** pCO2, HCT, Lactate and Electrolytes minimum Na, K, Cl and Calcium from whole blood with calculated parameters. All parameters should be in a single unit. **Calculated parameter: pH (T), PCO2 (T), PO2 (T), HCO3-act, HCO3-scd, BE (B), Be (ecf), ctCO2, Ca++(7.4), AnGap, sO2, O2SAT (est), Hct, BO2, pO2(A-a) (T), PO2 (a/A) (T), p50**
2. Machine should be sensor based/cartridge suitable for multiple tests.
3. Machine should have auto calibration technique.
4. Instruments should have user friendly software.
5. Instruments should have inbuilt memory for patients data & quality control data.
6. Instruments should have battery back-up or online UPS should be supplied with the machine for minimum of half an hour.
7. Analyzer should be able to measure capillary samples as well as syringe samples.
8. Instruments should have inbuilt printer.
9. Cassette/ cartridge should have on board stability of minimum 30 days.
10. Instruments must be USFDA & CE (notified body) approved, related certificates shall be uploaded in technical bid.
11. System should have comprehensive quality control programme.
12. Company should have own control & calibration.
13. Instruments should have Inbuilt thermal printer & RS 232/ USB port to connect with external computer and the equipment should be supplied with necessary software and hardware.
14. The service engineer should be based in Rajasthan.
15. Equipment should be supplied with one standard consumable pack along with quality control.
16. The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the Technical bid along with compliance sheet as per technical specifications.

Item No.2: Central Monitoring System with Software

1. Complete seamless mixed network for hardwired/wireless patient monitoring and telemetry system
2. Should support 16 vital signs or more monitors – simultaneous monitoring & display
3. Up to 4 wave form per patient and 16 patients/32 wave form per screen can be displayed
4. Store and review trends for at least 96 hours
5. Facility to enter data from the central station
6. Display: LED screen, slim, wall/roof mountable, at least 17" display and screen resolution of at least 1280x1024 pixels or more.
7. Ability to zoom all parameters from one bed while the data of other patients is displayed simultaneously.
8. Smart patient admit/discharge/transfer management and alarm management
9. Bidirectional communication capability
10. Ability to adjust individual bedside unit alarms from the central station
11. UPS system with at least 1-hour backup time

12. The successful bidder shall be responsible for installation of Central Monitoring System including all essential/ required hardware. All required hardware shall be provided free of cost by successful bidder.
13. Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session.
14. System should be FDA (USA) or European CE (notified body) approved, certificate shall be uploaded in technical bid.

Item No.3: Defibrillator

1. Defibrillator should be Bi-Phasic.
2. Defibrillator should be ready for AED facility and non invasive pacing.
3. Should have a high resolution colour TFT display of minimum 6 inch or more.
4. Should have direct trim knob and direct function keys for mute and freeze.
5. Should have energy levels for defibrillation up to 200 joules or more.
6. Should be mains and battery operated. Internal battery should provide backup operation up to 2 -3 hours in monitoring or at least 90 defibrillation shocks should be delivered from fully charged battery.
7. Integrated external re-usable adult and paediatric paddles for defibrillation.
8. Should have non synchronised and synchronised cardio version.
9. Facilities of ECG pickup from paddles in case of ECG electrodes are not connected to the Defibrillator.
10. The charging time should be less than 7 seconds for charging up to 200 joules.
11. Should have integrated Printer.
12. Should be European CE with notified body/USFDA approved. Related certificate shall be submitted in technical bid.
13. Equipment should be supplied Operating / user Manual (1 No.), **20 nos. disposable pads & 10 nos. paper pack.**
14. Installation will be done by supplier free of cost.
15. The firm should submit technical compliance sheet along with catalogue as per technical specifications mentioning the make & model of quoted item in the Technical bid.

Item No.4: 12 Channel ECG Machine

1. 12 Channel ECG Machine.
2. It should have In-built Thermal Printer.
3. Automatic & Manual Recording Modes.
4. 3/6/12 Channel Print Format on A-4 Size Thermal Papers.
5. 12 Lead Monitoring Simultaneously on TFT LCD/LED display, **size 6" or more**
6. Should have 12 lead ECG preview display before taking printouts.
7. Full QWERTY Alpha Numeric Key Board or Touch Screen Keyboard.
8. Mains & Battery Operated.
9. In-built Rechargeable Battery for at least 100 recordings.
10. It should have facility of visual alarm for open lead.
11. CMRR should be 90 or more.
12. Memory for **40** ECG or more.
13. Paper Speed 12.5/25/ 50 mm/ sec.
14. Built in Defibrillation Protection.
15. **Sensitivity**: 5, 10, 20 mm/ mV.
16. Measurement facility with interpretation.
17. Product should be European CE from notified body or USFDA approved. (Valid certificate should be submitted in technical bid).

18. The machine should be supplied with a good quality carry bag to carry ECG Machine along with compatible standard paper rolls (quantity 10 nos.), Complete ECG Lead Set (2 Nos.), Clamp Electrodes (1Set), Chest bulb Electrodes (1Set.), ECG Jelly (250 ml X 2 bottles), Warranty Card & Operating Manual.
19. Installation will be done by the firm free of cost.

Item No. 5: Intensive Care Unit Bed – Motorized

1. Overall Size: 2200mm L x 1000mm W x 450mm to 750mm H ±100mm tolerance (without mattress).
2. Electrical System: The wired handset controls Hi-Lo Height adjustment, Trendelenburg/ Reverse trendelenburg, Back rest and Knee rest, Zero position for CPR.
3. The wired control panel for nurse shall be able to lock or operate: height, backrest, upper leg section, trendelenberg, reverse trendelenberg and zero position for CPR.
4. Battery Backup: The electrical system shall have a battery backup with built in battery charger, The backup should have 50 or more cycles.
5. Bed should have manual emergency CPR level on both sides.
6. The bed should have linear actuator based electrically operated height, knee break, backrest, trendelenberg/ reverse trendelenberg tech (±12°) functions. Back rest angular movement should have 70 deg and Knee rest angular movement: 24 deg
7. Construction: Top frame and base frame shall be mainly made from 50mm x 30mm x 1.6mm ERW (electric resistance welded) M.S. Rectangular tube.
8. Stainless steel wherever used shall conform to grade 304 (non magnetic). Support system linkages shall be of thick M.S. Flats/tubes.
9. Dust protective base cover shall be provided on control box.
10. The bed should have a provision to fix saline stand on all four corners of bed.
11. Detachable four-section top made from ABS material or epoxy powder coated perforated M.S. 1.6mm.
12. The bed should have safety side railings, collapsible split type shall be made from ABS. It should be easy to operate and have damping mechanism. Zero transfer gap facility shall be available.
13. Caster Wheels: The bed shall be provided with central locking 125mm diameter wheels and directional locking of wheels shall have thread guards; the castor body shall be made of non-rusting material. Corner Buffers: Four nos. rubber buffer shall be fitted to the four corners.
14. Oxygen Cylinder holder shall be provided.
15. Safe overall working load should be minimum 150kg.
16. Bed should have dual sided integral drainage bag rails with hooks.
17. The Bed should operate on 220-240V AC 50/60Hz.
18. Finish: All components should be thoroughly pre-treated chemically to remove rust and foreign matter like grease, oil, etc. by epoxy polyester powder with appropriate thickness paint film. This finish may exclude castor wheels any stainless steel parts, hardware, ebonite rubber and PVC parts used.
19. The product should be CE certified. Related documents shall be submitted along with technical bid.
20. The product IEC 60601-2-52 international safety for electricity actuated hospital bed certified. Related documents should be enclosed in technical bid.
21. Supplied with:
    a) Should be provided with foam mattress of 4 sections, 4" thick PU foam of 40 density covered with soft water proof material, bacteriostatic & pillow.
    b) Stainless Steel Saline Rod -01 Number
    c) The Back rest section should constructed of an X-ray permeable radiolucent surface and a stainless steel bucky plate supported by a knob & spring mechanism. The bucky plate (tested for a maximum load bearing capacity of 5Kg) acts as a X-ray cassette holder during usage
22. Manufacturer should be ISO- 13485 certified.

Item No.6: Oxygen Concentrator

1. Oxygen concentrator to provide oxygen from ambient air.
2. Oxygen concentration measured at the flow meter by oxygen sensing device (OSD).
3. *Sound level* should be < 50dB.
4. Superior grade of molecular sieve.
5. Maintenance free rotary proppet valve.
6. Oxygen purity should be 92% ± 2%.
7. Oxygen output, approx: 0 - 5 LPM.
8. *Pressure range should be 6 - 8 PSI.*
9. Single outlet to maintain output presser & flow/ Double outlet or flow splitter for oxygen Delivery.
10. Oxygen tube of 2m length must be provided with.
11. With two humidifier bottles and two cabinet filters.
12. Power requirements: 220 V/50 Hz.
13. Device is produced by ISO 13485 certified manufacturer.
14. Bottles should be made of autoclavable polycarbonate.
15. With bilateral oxygen nozzle.
16. Oxygen failure or Low Oxygen Alarm facility should be available for below 80% oxygen.
17. Device is safety certified according EUROPEAN CE from notified body / USFDA.
18. **Supplied with:-**

1) 1 x spare set of tubing.
2) Two spare sets of humidifier bottles.
3) Two spare sets of cabinet filters.
4) User manual with trouble shooting guidance, in English.
5) Technical manual with maintenance and first line technical intervention instructions, in English.
6) Manufacturer should be ISO- 13485 certified.

Item No. 7: Multi Para Monitor

1. Should have ECG, SpO2, NIBP, and Respiration, **2IBP and Temperature** as standard parameters.
2. Should have facility to display 7 **lead** ECG, RR, HR, SpO2, NIBP, and Temperature.
3. Monitor should have option for modular upgradable for CO (Cardiac Output), EtCO2 **(Capnography).**
4. Should display **6** or more waveforms of selected parameters simultaneously, **should have colour coding for different waveforms.**
5. Should have inbuilt battery backup at least one hour.
6. **Display: Color TFT touch screen display size of 12" or more.**
7. **Monitor should have both touch screen and knob to operate.**
8. Should have dual temperature monitoring either in 0Celecius or 0Fahrenheit.
9. Should have facility for displaying multi - screen configurations.
10. Should be able to store & display at least 24 hours of graphical trends of all parameters.
11. Should be suitable for monitoring adult & pediatric & neonate patients.
12. The SpO2 technology should also sense in hypotension, shivering & motion.
13. Should have oscillometric technology for measurement of NIBP with Auto, STAT and Manual modes.
14. Should have different patient type selection.
15. The pulse rate should be displayed either with ECG or SpO2.
16. The respiration rate should be calculated through Impedance method.
17. Should be able to analyze arrhythmias & ST segment changes.
18. Memory should not wipe off when the power is turned off.

19. Should be able to give visual & audible alarms with three levels of volume adjustment.
20. **Should have facility of connecting to the central monitoring station having facility for real time monitoring through Ethernet cable or Wireless Connectivity.**
21. **Wall mount stand should be provided free of the cost with the monitor.**
22. Quoted model should be European CE (Notified Body)/USFDA approved.
23. Equipment should be supplied with compatible 5 lead ECG cable (1 Nos.), SpO2 (Adult) probe with extension cable (2 Nos.), NIBP Cuff with extension cable of Large Adult, Adult & Pediatric (2 each), Temperature probe (2 Nos.) & Operating / user Manual (1 No.)

Item No.8: 100mA High Frequency Mobile X-Ray Machine

X-RAY GENERATOR:

- High Frequency X-Ray generator having frequency of 20 KHz or more.
- Power output should be 6.0 KW
- Radiographic KV range should be 40 to 110 KV
- Rad mA : 100 mA or more

X-RAY TUBE HEAD:

Monoblock version X-Ray Tube Head with Stationary Anode Single focuses X-Ray Tube. A very compact H.V. Tank filled with high dielectric transformer oil or Monoblock HT tank should be provided. The monoblock consists of Tube, H.V, transformer, filament transformer, H.V. Rectifiers & One No. Manual Collimator should be provided, with auto off facility.

CONTROL PANEL:

- **mA increase and decrease switches with mA display.**
- KV increase and decrease switches **with KV display.**
- mAs increase and decrease switches **with mAs display.**
- Machine ON/OFF switch
- Collimator Lamp ON Switch
- Standby & Exposure Switch
- Self diagnostic Programme with indicators for:-
- Earth fault error
- KV error/ **inverter error**
- Filament error
- Tube head Thermal Error
- Stand by (Ready) & X-Ray On Indicator
- Incoming Voltage Indicator. There should be provision for the machine to work from 195 Volts Input supply to 265 V input supply.
- Anatomical Programming Radiography (i.e. APR) should be provided in which **mA,** KV & mAs are automatically selected depending upon the physique of the patient and part of the body to be X-Rayed.
- Anatomical Programming should be of minimum 200 programmes should be provided. There should be a provision that the control should get off, if no key is pressed for 10 mins.
- A Hand switch with Dual action for exposure Release with Retractable Cord is should be provided for Radiation Protection to the Operator.

TUBE STAND:

Mobile stand with 4 wheel design, which ensures easy mobility & steering. The spring Balance Stand (No Gas Spring) should be very light in weight with tube arm. It should be very easy to maneuver & allow smooth movements of Tube Head in vertical plane. Lead lined cassette storage box. Large wheels for easy mobility should be provided. The stand is designed for maximum maneuverability of the unit and is able to achieve tube focus to floor of 75 inches and tube focus to table top distance of 46" (Standard Radiography Table). The equipment should occupy minimum floor area & is capable to be taken through elevators with ease.
The Entire Tube Arm should be Swiveled + or - 90 degree (180) degree for taking sidewise X-Rays without moving Machine.

POWER SUPPLY:

The unit should be operable on 230 Volts, 50Hz, 15 Amps with line regulation of + or -15% Line resistance less than 0.4 ohms.

OTHER REQUIREMENTS:

1. The manufacturer should be ISO-13485 certified. (valid documentation should be submitted in technical bid)
2. The unit should be approved by AERB. (valid documentation should be submitted in technical bid).

Item No.9: Portable Multipara Monitor

1. Should have ECG, SpO2, NIBP, and Respiration & Temperature as standard parameters.
2. Should have facility to display 7 **lead** ECG, RR, HR, SpO2, NIBP, and Temperature.
3. Should display at least 5 waveforms of selected parameters simultaneously.
4. Should have inbuilt battery backup at least one hour.
5. Display: Color LED/LCD touch screen display size of 8" or more.
6. **Monitor should have both touch screen and knob to operate.**
7. Should have dual temperature monitoring either in 0Celecius or 0 Fahrenheit.
8. Should have facility for displaying multi - screen configurations.
9. Should be able to store & display at least 24 hours of graphical trends of all parameters.
10. Should be suitable for monitoring adult & pediatric & neonate patients.
11. **The SpO2 technology should also sense in hypotension, shivering & motion.**
12. Should have oscillometric technology for measurement of NIBP with Auto, STAT and Manual modes.
13. Should have different patient type selection.
14. The pulse rate should be displayed either with ECG or SpO2.
15. The respiration rate should be calculated through Impedance method.
16. Should be able to analyze arrhythmias & ST segment changes.
17. Memory should not wipe off when the power is turned off.
18. Should be able to give visual & audible alarms with three levels of volume adjustment.
19. Monitor should be easy to carry/tansportable from one place to another place.
20. Should have connectivity to Central station through Ethernet card or Wireless Connectivity.
21. Quoted model should be European CE (Notified Body)/USFDA approved.
22. Equipment should be supplied with compatible **5 lead ECG cable (1 Nos.), SpO2 (Adult) probe** with extension cable (2 Nos.), NIBP Cuff with extension cable of Large Adult, Adult & Pediatric (2 each), Temperature probe (2 Nos.) & Operating / user Manual (1 No.)

Item No. 10: Syringe Pump:-

1. Microprocessor controlled syringe infusion Pump.
2. Should have Rate Mode, Time Mode, Dose Mode, and Drug Library for 50 or more drugs.
3. Should Have Facility For Automatic Syringe Size detection for 5 ml, 10 ml, 20 ml, 30 ml, 50ml,

4. Should also have facility to accept any unknown brand of syringe in the form of custom syringe.
5. **ALARMS** : Infusion Completion, Empty, Occlusion, Near Completion, Low Battery & Adjustable Buzzer Volume
6. Adjustable visual and audible alarms.
7. Should have bolus facility with bolus rate from 0.1 to 1200 ml/hr. Anti bolus and auto bolus facility.
8. Rechargeable Battery operating time Approx. 6 hours or more at the rate of 5 ml/hr.
9. Should have 90 degree rotation pole clamp convenient for horizontal bar & vertical IV pole.
10. Should have facility for front loading of syringe.
11. Flow rate adjustable from 0.1 ml/hr – 1200 ml/hr (depending on the syringe capacity).
12. Online changing of delivery rate possible.
13. Internal function alarm. Drive disengaged alarm & should have KVO (KEEP VEIN OPEN) Mode. Should have keypad locking facility.
14. Should be CE Certified(Notified body) / USFDA approved.

Item No. 11: BIPAP Machine

1. Non-invasive ventilation support system to ensure proper ventilation to COPD patients with silent turbine.
2. It should be suitable for Adult and Pediatric patients.
3. Modes of operation: CPAP, Bilavel, Auto, AvAps , Spontaneous, S/T, Time Mode & Pressure Control.
4. It should have display to monitoring facility for Tidal Volume, RR, Minute ventilation, I: E ratio.
5. Operating pressure range of IPAP, EPAP & CPAP: 4 to 30 cm H2O
6. Unit should be capable of delivering Tidal Volume 1200 ml or more when operated in AVAPS or equivalent mode.
7. Breath rate should be able to set up to 30 BPM with Ti of 0.3 to 3 sec. and rise time 100ms to 600ms.
8. Sensitivity settings: should have trigger and cycle setting.
9. Unit should have integrated alarm for power, Pressure (High/Low), Low Minute ventilation, Apnea, Respiratory rate (High/Low), Circuit disconnected etc. With digital technology for improved leak compensation during inspiration & exhalation.
10. Complete unit should be supplied in good quality bag which can carry both adult and paediatric circuit and mask along with equipment.
11. Quoted model should be European CE(Notified Body) or USFDA approved. (Valid certificate should be submitted in technical bid).
12. Unit should have battery backup capacity **of 1 hour** or more.
13. Data recording on built in **2GB** SD card/Internal Memory.
14. Unit should be supplied with reusable patient circuit and reusable full face mask with harness Adult & Paediatric (1 no. each), operational / training manual (1 no.).

Item No.12: Portable Video Laryngoscope

1. Portable Video Laryngoscope with CMOS camera technique.
2. Should be light weight and compact.
3. **Should have real time video output facility and provision to record further.**
4. **Should have external memory or provision to connect with external source.**
5. Should have anti fogging or fog free mechanism.
6. Should have colour video LED/ LCD display.
7. Light source should be high intensity LED.
8. **Should be supplied with three different size non-channeled and one size 3 channeled blade.**
9. Should be USFDA/ European certified by notified body.

Other terms and conditions for Group A:

1. The bidder shall provide product catalog, technical datasheet and technical compliance sheet along with technical bid.
2. The successful bidder shall be liable to make functional/operational the ICU with all equipments/items.
3. All accessories/ consumables / Spares for each & every equipment shall be provided free of cost by the successful bidder. The successful bidder shall liable to fix/install all accessories/ consumables / spares with its related equipments/items.
4. Minor civil/electrical/ plumbing/paint work shall be done free of cost by the successful bidder as per the requirement of institution.
5. All mentioned documents/certificates (mandatory) shall be uploaded along with technical bid.
6. Warranty of all equipments shall be 03 years from the date of commencement /hand over the operational ICU.
7. The successful bidder shall provide training to ICU staff at the time of completion and as when as required in warranty at his own cost.
8. 02 preventive maintenance (once in 6months) and yearly calibration (one in a year) shall be provided free of cost by the successful bidder. The signed (from appropriate authority of institution) service report/check list of Preventive Maintenance and calibration certificate shall be submitted at institution.
9. The successful bidder shall be done QA and QC (as per AERB norm) of X-ray machine after installation at free of cost. QA and QC related documents shall be submitted to institution. The successful bidder will help institution to register X-ray machine in AERB.
10. The successful bidder shall provide service support of these equipments within in 48 hours from the date of complaint.
11. The successful bidder shall provide a single toll free number for the complaint of all equipments.

Group-B

Item No. 1: Bedside Locker

1. Overall Dimension:
   Length : 400 mm (+/- 5 mm variation)
   Width : 400 mm (+/- 5 mm variation)
   Height : 805 mm (+/- 5 mm variation)
2. Construction: - The outside diameter of the legs of the locker should be 25 x 25 x 1.20 mm Sq. tube and 1.22 mm thick. Height of the legs from the bottom should be at least 150mm.
3. The cabinet body, shelf and legs should be made from CRC steel sheet in 1.0 mm thick.
4. The Top should be made from 1.2 mm thick Stainless steel sheet and it should have back and side bent upward for acting as a guard sheet (height of the sheet shall be 75mm).
5. Cabinet: - Dimension:

Height	–	580mm
Width	–	400mm
Depth	–	400mm
Tolerance	–	± 5mm

   Cabinet having two boxes of same sizes (properly welded partition).
6. Door: - Single door, door of the cabinet should be made from CRC Sheet of 1.25 mm thick press bent to required size. Door of the cabinet is offered with 6 ventilation louvers to provide air vents. The door should be press bend in such manner on top of door to facilitate opening/closing.
7. Door is pivoted to the cabinet with help of Stainless steel rod.
8. Pivoted Rod acting as a hinges and allow the door to swing.
9. Shoe made from hard rubber. Nominal height of the shoe should be 30 mm.
10. Finishing: - All Steel sheet components shall be made from CRCA sheet and have to be treated for the removal of free rust on the surface.
11. Pre-treated and epoxy powder coated should be not less than 50 micron.
12. Manufacturer should have ISO 14001 or OHSAS 18001 or BIFMA Certifications (Valid documentation should be submitted in technical bid).

Item No. 2: Cardiac Table (Over bed table)

1. The Bed Side Table should have height adjustment facility from 850mm to 1100mm with help of operating lever which activates the gas spring to assist the table top to lift.
2. Gas spring should function smoothly with adjustable height and consistent motion during operation.
3. Table top frame shall be designed to hold the top as well as extension works as a handle for handling of bed side table.
4. Table should have anti scratch, good surface finish ABS Laminated top having dimension 760mm x 360mm ±5mm.
5. The Bed side table should be mounted on four swivel castors of 5cm.

Item No. 3: Crash Cart

1. Six removable bins & S.S. Frame, two polystyrene storage units with three drawers, each can be locked.
2. Fitted with 125 mm castors (two with break) complete with corner buffers.
3. Oxygen Cylinder cage/holder
4. Electric LED Lamp shall be provided.
5. I.V Rod, Cardiac Massage Board & three laminated shelves (SS Grade)

6. Pre-treated & epoxy powder coated.
7. Overall approx size: 940 mm (L) X 490 mm (W) X 1530 mm (H) - (Tolerance ±5%)
8. Manufacturer should have ISO 9001. Related document shall be submitted along with technical bid.

Item No. 4: Dressing Trolley

1. Dressing Trolley should be made up of stainless steel.
2. The overall dimension of dressing trolley: 1000mm (l) x 500mm (w) x 900mm (h) ±5mm.
3. The dressing trolley's tabular frame should be made up of Stainless steel with 20mm±2mm. dia.
4. The trolley should be with two heavy duty stainless steel shelves with dimension 750mm (l) x 500mm (w) ±5mm.
5. Both S.S. shelves with protective stainless steel railings on all four sides on the top.
6. Trolley should have 125mm diameter 4 castors with synthetic body, two with brake and two without brake.
7. It should have provision of S.S. Bowl and S.S. Bucket.
8. Supplied with:
   a) Stainless steel bowl
   b) Stainless steel bucket
9. Manufacturer should be ISO- 9001 certified.

Item No. 5: Nebulizer

1. Nebulizer is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases
2. Heavy duty compact Nebulizer is required.
3. Compact, light weight, low noise
4. Durable long life compressor. Suitable for heavy duty/ institutional (hospital) use, should be able to run uninterruptedly for one hour, Max Press= 2.0-2.5 bars
5. Should produce particle of size 1-5 micron
6. Aluminium cabinet painted with epoxy powder.
7. Piston-type electric aspirator that offers high performance and great durability.
8. Protective thermal cut out relay
9. Air delivery rate app.15 L/min.
10. 24 hours continuous work for hospital use.
11. Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive. Related documents shall be submitted in technical bid.
12. The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%.
13. The unit shall be capable of operating continuously in ambient temperature of 20-30 deg C and relative humidity of 15-90%.
14. Power input to be 220-240VAC, 50Hz fitted with Indian plug.

Item No. 6: Patient Stretcher Trolley

1. Trolley made of pipe frame M.S. Tube 16 Gauge 1" round for horizontal & 1.25" for vertical.
2. Standard length & width and height 210 (L) X 65 (W) X 65-95 (H) cm
3. Should have four noiseless 15 cm diameter heavy duty castor wheels, 2 Nos. with locks for break movement.
4. Wheels should not be welded out the trolley as repair / replacement of wheels later on is possible.
5. The trolley should have facility to keep Oxygen cylinder.

6. Should have weight bearing capacity of around at 200 Kg (Patient + O_2 cylinder).
7. Head-end of the trolley (around 2.25 + 2.5 feet) should be adjustable to put at deferent angles i.e.15 to 75 degree.
8. Detachable top should have this adjustable head end.
9. Arrangement for I/V stand and for supporting O_2 (oxygen) cylinder.
10. 1.5" mattress at top, density of foam should be ≥ 40.
11. Pre-treated and epoxy powder coated finished.

Item No. 7: Pulse Oxymeter(Fingertip)

This Fingertip Oxymeter is intended for measuring the pulse rate and functional oxygen saturation (SpO2) through a patient's finger.

- **It should display SpO2, PR, Pulse bar and SpO2 wave.**
- Best Features: Auto Power On & Off, Water-Resistant, Buzzer- Visual Alarm, Dual Color OLED Display. Four direction display, Low battery indication
- Quick, Accurate And Easy To Use - It's newly designed monitor gives instant readings of blood oxygen saturation (SpO2), pulse rate(PR) and pulse strength(PI), Plethysmogram and displays them on a large OLED screen. Wavelength display clearly shows inconsistencies. It's display can rotate in four directions
- Bidder should provide two sets of suitable rechargeable batteries compatible to the equipment along with charging adapter.
- **Quoted model should be European CE(notified body)/USFDA/BIS Certified.**

Type of Product	Digital Fingertip Pulse Oximeter
SPO2 Measurement Range	70% - 100%
Pulse Measurement Range	30 - 250 bpm
SPO2 Measurement Accuracy	70% - 100% : ± 2 %
Pulse Measurement Accuracy	30 - 99 bpm , ± 2 bpm ; 100 - 250 bpm ; ± 2%
Pulse Indication	0.2 - 1.0%, ±0.2digits; 1.1 - 20.0%, ±20%
Power Supply	2x1.5V Alkaline Batteries or suitable for system
Display Type	OLED Display

Item No. 8: Electrical Suction Machine

Should have stainless steel body of SS 304 grade with rotary vane pump.

1. Low vacuum, low flow, oil free vacuum pump of maximum vacuum: 0 to 700 mmHg and flow rate of at least 40 lit/min regulatable.
2. Provided with flutter free vacuum control knob.
3. Collection bottle of wide mount 1 litre of 2 numbers (collection jar of light weight, polycarbonate unbreakable and transparent with plastic lid).
4. Bottle(s) have fitted with arrangement to prevent overflow of fluid.
5. Filter and overflow valve incorporated to prevent cross-contamination.
6. The pump should be incorporated with bacterial filter.
7. Tubing to patient to be minimum 0.5m long, non-collapsible type.
8. Should be easy to clean and disinfect.
9. Any necessary greasing/oiling to be simple, accessible and possible by normal clinical operator. And, should have manual setting.
10. Noise (in dBA) - 50 dB A ± 3

11. Provision of mobility and portability should be available.
12. Power Requirements- 230 V, 50 Hz, 2 ± 0.5 Amps
13. Tolerance (to variations, shutdowns) - Voltage corrector/stabilizer to allow operation at ± 30% of local rated voltage. Use of SMPS to correct voltage.
14. Protection- Electrical protection by resettable over current breakers or replaceable fuses, fitted in both live and neutral lines.
15. Power consumption- Should run with other life-saving equivalent running parallel.
16. Quoted product should be US-FDA / CE(notified body)/BIS. And, manufacturer should have ISO 13485 certificate. Should meet the standards of IEC 60601.
17. Accessories (mandatory, standard, optional): Collection container and its cap, suction tube tips, vacuum gauge, two sets of moisture and microbial filters and control knob.
18. Final technical approval after demonstration.
19. Company should have service network in Rajasthan.
20. User manual with trouble-shooting guidelines should be provided by suppler.

Item No. 9: Wheel Chair

1. The wheel chair shall be made up of 16 gauge Stainless steel 304 grade tube frames and 16 gauge stainless steel 304 sheet for seat and backrest.
2. The dimension of wheel chair: 670mm (w) x 1120mm (d) x 92mm (h)±5mm.
3. It should have a fixed arm set with soft polyurethane.
4. It should have reticulated and breathable cushion and seat.
5. It should have retractable aluminium foot rest.
6. It should have push handle with plastic cap.
7. It should have 6" swivel nylon castor front wheel, 24" bicycle type rear wheel with puncture proof flat free type tyre.
8. The back wheel fixing bolt shall be covered with cup type nut.
9. It should have wheel breaking system on both side.
10. Manufacturer should be ISO- 9001 certified.

Item No. 10: X-Ray-View Box

1. Should be ultra-thin X-ray film illuminator using light. It should have a thickness of 30mm.
2. It should be suitable for viewing 14''x17'' (inches) film. Should have position to insert 8 films in 2 rows.
3. The LED light must have a life span of more than 100000 hours [OEM Certificate (Life cycle of LED) must attached in technical bid].
4. It should have facility of easy insertion and removal of the film.
5. It should have homogeneous illumination more than 95% and maximum intensity of over 10,000 lux [Data Sheet/Certificate (OEM of LED) must attach in technical bid].
6. It should have auto On/Off function with insertion and removal of films.
7. It should have fully electronic continuous brightness control with adjustment range of approximately 90%.
8. It should have directly connectable to power supply without any external adapter.
9. It should have flicker free high frequency light for reduction of eye strain.
10. It should have external fuses for protection against power surge.
11. 10 step digital dimmer facility with step up/step down intensity of 500 lux or less.
12. Should have automatic film sensor.
13. Should have facility to switch on only the section where the film needs to be viewed.

14. AC power supply of 100-240V, 50/60Hz.
15. Manufacturer should be ISO 13485 certified. Quoted model should be BIS/US-FDA/ CE(notified body).

Item No. 11: Cubicle/ Privacy Curtains for ICU

1. Track Material- Made of Aluminium alloy (6063-T6), with corrosion resistance properties and Standard white powder coating
2. Track Size (Approximate)
   a) Gauge 1.7mm
   b) Height 25mm
   c) Width20mm
3. Runner type-Wheel or Glider Type
4. Runner material- Made of Nylon of PVC
5. Hooks- Stainless Steel grade 202
6. Bends- Tracks are bendable to a radium of 300 mm at 90 degree to cover the whole bed
7. Track height- As per site requirement
8. Track roof suspenders- Made of aluminium pipe of at least 12 mm diameter and the Upper Circular Plate made of aluminium with at least 50 mm diameter. These should be white powder Coated and fixed with the ceiling is with anchors, bolts, screws etc.
9. Track wall supports- Aluminium white Powder coated
10. Tack bridge clamp- Aluminium white Powder coated
11. Curtain Removal Point- Optional : Curtain runner removal point for loading and unloading of runners
12. Curtain Material- Polyester Blended
13. Standard Curtain Size:
    a) Height- At least 84 inch or more
    b) Width- At least 46 inch or more
    c) Mesh(Net) Size- At least 18 inch or more from top of the curtain and made of nylon
14. Curtains Type:
    a) Stain Retardant Cubicle Curtains
    b) These Curtains should be made up of fabrics with inherent antibacterial and flame retardant properties.
    c) These curtains should be wrinkle free and shrink proof with Anti odour and Anti-fungal properties.
    d) It should meet the international Antimicrobial Test JISL 1902/ISO 207431
    e) These Curtains should have stain retardant qualities with water repellent quality with rust proof SS grommets 6" on centers. Designs and Colours should be approved by the user department.

Item No. 12: Adult Resuscitation Kit

Adult Ambu Bag : Rugged, 100% Autoclavable, Reusable 1600ml Silicon Bellow with Rebreathing Valve & face mask, Foldable, 360° swiveling patient standard connector, Reservoir bag and 1.5mtrs PVC Oxygen tubing (1 Unit).

1. Silicone Face Mask Size: 1, 2 & 3 (1 No. each).
2. Adult Laryngoscope Set with three matt finish LED blades:
   Handle with Cell (1 No.)
   S.S. Blade Size 1, 2 & 3 (1 No. each)
3. Foot suction compact light weight & easy to operate durable rubber bellow, long lasting stain less steel spring to provide free pumping, autoclavable vacuum Jar 500 ml capacity, 3 mtrs suction tube with suction tip.
4. "Silicon Airway Size 1,2,3,4 & Laryngeal Mask Airway (LMA) Silicon size 3&4, Flexible and disposable (1No.each)".

5. Cuffed E.T. tube disposable size 5, 5.5, 6, 6.5, 7, 7.5, & 8
6. Mouth Opener
7. Stylet and Bougie.
8. All items should be covered in good quality Rexene carry bag.
9. Manufacturer / supplier should have ISO 9001
10. Warranty: One year against any manufacturing defect.
11. Final technical approval after sample demonstration.

Item No. 13: Glucometer

1. It should be a hand held meter.
2. It should be easy to use, one button or more navigation system.
3. **It should have LCD display with back light facility and symbols.**
4. It should be based on Electrochemical (Gold Electrode)/Biosensor principal.
5. It should give fast and accurate result within 5-8 seconds (blood application with test strip within the meter)
6. No Coding system (Automatic calibration).
7. It should have under dosing detection system when less blood applied on the test strip.
8. Sample size should be 1-2 uL.
9. It should have measuring range between 20-500 or more mg/dL of blood sugar.
10. It should work in temperature range $+5^{O}C$ and $+50^{O}C$ and up to 85% humidity.
11. It should have Lithium coin battery.
12. It should have up to 200 test memory with date & time.
13. Final approval after technical demonstration.
14. License of manufacturing from Drug Authority/Import License from Drug Authority, Renewal/Retention copy and Product approval/Permission copy, related documents should be submitted in Technical Bid.
15. It should have valid USFDA/Europian CE(notified body) with IVD approval/IS-15197:2013 certificate, related documents should be submitted in Technical Bid.
16. BIS Standards are freshly implemented (Order No-HCT/13-14/Medical Device mgmt Model/10 Dated-24th July 2018).
17. At any time if results are not found satisfactory of supplied items the contract may be cancelled.
18. Glucostrip should not use more than 2 micro liter blood sample for glucose testing.
19. Should be able to use fresh capillary whole blood.
20. All strips should have at least one year expiry from the date of supply.
21. **Strips should be packed individually/in a air tight bottle pack.**
22. **Auto disable lancet should be provided free of cost with each strip.**
23. Strips should have packing of 100Nos and a pack of 100 strips should be provided free of cost with the equipment.

Item No. 14: Infrared Thermometer

1. Product Description- Hand Held Digital Infrared medical thermometer for measuring human body temperature
2. Type of Thermometer- Non contact Infrared Thermometer
3. Temperature display unit- degree Celsius & degree Fahrenheit
4. Measuring site- Forehead
5. Measuring Range- 32°C (89.6°F) to 43°C (109.4°F) or Higher
6. Accuracy of measurement- ±0.2 degree Celsius/ Fahrenheit or better
7. Display Resolution- 0.1°C/0.1°F
8. Measuring distance- 5 cm or better
9. Display Type- LCD Display

10. Features- Auto Shut down when not in use, Audible/Visual alarm facility
11. Product certification- USFDA approved/listed and CE(notified body) certified
12. Manufacturer Standard- ISO 13485 certified

Item No. 15: Electrical Instrument Sterilizer

1. Category – Large
2. Length : mm : 510 ±5mm
3. Width : mm : 200±5mm
4. Depth : mm : 150 ±5mm
5. Elect Load KW :2.00 maximum
6. Body Type : Stainless steel with tray and sterilization forceps : 10 Inches
7. Product should be
8. Product shall be ISI/CE Marked. Related document need to submitted in technical bid
9. Should operate on 220-230v AC Supply.

Item No. 16: Vein Detecting Transilluminator/Device

1. Should be a lightweight portable and handheld non contact vein finder/viewer
2. Should use Near Infra Red (NIR) light source.
3. Should have multiple modes for viewing, based on different skin tomes and body characteristics of patients
4. Should be able to view veins at 8mm depth
5. Should have rechargeable battery which will last at least 4 hours of backup
6. Should be ideal for adults and infants.
7. Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/ STQC CB Certificate/ STQC S Certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be produced along with the technical bid

Item No. 17: Laryngoscope (Adult)

1. Constituted of large hollow, cylindrical, slightly ribbed handle and set of depressors in stainless steel mat finish.
2. Firm should provide 02Nos. curved depressors and 2Nos. Straight depressors with LED Bulb for Adult Laryngoscope.
4. Handle is made of either chromium plated or stainless steel and can be opened at an extremity to insert two leak proof alkaline batteries of appropriate size, The other end should have a stud contact which fits the various sizes and types of depressors.
5. The Laryngoscope set should be supplied in suitable protective good quality plastic box.
6. The manufacturer should be ISO 13485 certified and the Laryngoscope should be CE Certified.
7. The Laryngoscope set should be supplied with following accessories:

a) 08 spare LED bulbs (02 for each depressor)
b) 04 leak proof alkaline Batteries of appropriate size
c) User Manual with trouble shooting guidance (in English & Hindi)
d) Technical manual with maintenance and first line technical intervention instructions.

Item No. 18: Medical Gas Pipeline System (MGPS)

MGPS ACCESSORIES	
S.No	**Item**
1	SITC of Bed Head Panel of 1200-1500 MM long made out from high strength extruded aluminum with powder coating with 4 nos 6/16 Amp switch socket and provision for four Nos gas outlet **(2 Nos. O_2, 1 No. Air and 1 No. Suction)** point work should be executed as per directions of engineer in charge and of CE certified makes. (JK Engineering/ Shunty Engineering/ Ashish Engineering/ MR Engineering/ NSP/ BMPL/ HITEK)
2	SITC of Gas outlet points (AR-4), (AR-7) and vacumm (8.7 psig) for dispensing medical gases (oxygen/air/vaccum) at point of use confirming to BSEN ISO 9170-1: 2008. The Gas outlet are quick connect for different gas source and should accept only respective adapters as required. Makes (JK Engineering/Shunty Engineering/Ashish Engineering/MR Engineering/NSP/ BMPL/HITEK)
3	SITC of BPC (back pressure compensated) flow meter with humidifer made of nickel plated body double jacketed with flow gradations marked on it. Desired flow will be setteled through roatary knob. Flow range should be between 0 to 15 Ipm & work should be executed as per direction of engineer n charge. Makes.(JK Engineering/Shunty Engineering/Ashish Engineering/MR Engineering/NSP/ BMPL/HITEK)
4	SITC of suction unit (suction controller and collection jar) with posibility to configure required capacity collection jar and should meets the requirements as per BSEN ISO 10079-3:2009 the unit must designed to operate with the vaccum regulator suitable for 0-14.7 psig with flow rate 0-55 Lmp (min) for operating temperature - 18'C to 50'C with ON/OFF facility. The collection jar should be transparent, made of high quality polycarbonate that can be autoclaved at 121'C for 20 minutes for reuse and provided with auto stop to avoid over spill and contamination of the suction source when the jar collection reached optimized level, the complete unit supplied with filter to protect the source and pipe line from bacterial contamination. Makes. (JK Engineering/Shunty Engineering/Ashish Engineering/MR Engineering/NSP/ BMPL/HITEK)
	600 ml Capacity collection Jar
	Total (1 No Bed Head Panel)

Other terms and conditions for Group B:

1. The bidder shall provide product catalog, technical datasheet and technical compliance sheet along with technical bid.
2. The successful bidder shall be liable to make functional/operational the ICU with all equipments/items.
3. All accessories/ consumables / Spares for each & every equipment shall be provided free of cost by the successful bidder. The successful bidder shall liable to fix/install all accessories/ consumables / spares with its related equipments/items.
4. Minor civil/electrical/ plumbing/paint work shall be done free of cost by the successful bidder as per the requirement of institution.
5. Warranty of all equipments shall be 01 years from the date of commencement /hand over the operational ICU.
6. The successful bidder shall provide training to ICU staff at the time of completion and as when as required in warranty at his own cost.
7. The successful bidder shall provide service support of these equipments within in 72 hours from the date of complaint.
8. The successful bidder shall provide a single toll free number for the complaint of all equipments.

Electrical Work

S.No.	Item	Unit	Qty.
1	P&F Recessed/ Surface mounting heavy duty horizontal type sheet steel Distribution board phosphatised/ powder painted complete with suitable rating insulated copper bus bar, shorting link, neutral link, earth link and din bar, masking sheet, conforming to ISI3032 & IS8623 including making internal DB terminations with copper lugs, testing etc. as required. Gr.1 (Schneider (neo break), Siemens, HPL, GE, Standard, Indoasian (gold), Havell's, C&S, ABB (S270)		
E060530	Double door (single phase)		
E060534	12Way	EACH	1.0
2	P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/C/D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections, testing etc. as required. Gr. 1(Schneider (neo break), Siemens, HPL, GE, Standard, Indoasian (gold), Havell's, C & S, ABB (S270)		
E060110	Single pole MCB		
E060112	6 A to 32 A rating	EACH	
E060120	Double pole MCB		
E060122	40 A 63 A rating	EACH	
3	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. Gr. 1 KEI, Terexal, L & T, Standard, Paramount, HPL, Polycab, Havell's,		
E040108	2 x 2.5 sq. mm. + 1 x1.5 sqmm	Mtr.	
E040122	2 x 6.0 sq. mm. + 1x2.5 sq. mm.	Mtr.	
4	S&F following sizes of ISI marked (IS :14927 P-II) PVC casing capping along with accessories like coupler, inner, outer, elbow, square box, tee etc. on surface with screws, expansion fasteners as required. Gr. 1 AKG, Prestoplast, Precision, Polycab, Dauphin, Richa.		
E010402	25 mm x 12 mm	R.	

2. Following Changes/Amendment in Bid Condition :-

S.N.	Existing bid condition	Amended bid condition	Remark
1	Page no. 6 Single stage, two-cover for contract are invited from **manufacturers/ direct importers** for the procurement of equipment & instruments as listed below :	Single stage, two cover for contract are invited from manufacturer/direct importers/ Consortium/ bonafide dealer/ Authorized Distributors for the procurement of equipment & instruments as listed below	
2	Page no. 20 Contractual experience: The bidder shall be a manufacturer/ direct importer/ consortium/ bonafide dealer/ **Authorized distributor who must have established Two ICU's of minimum 10 beds on turnkey basis** in any state of India and submit satisfactory report in Technical Bid.	Contractual Experience : The bidder shall be a manufacturer/ direct importer/ consortium/ bonafide dealer/ authorized distributor. The bidder must have executed any two similar turnkey project in any combination (e.g.ICU/ Modular OT/ CATH Lab etc.) in any state of India, the consortium partner's experience shall be given equal wheightage	

		in experience count. Bidder shall submit submit documents in proof.	
3	Page no. 20 Technical experience: The bidder should have **established at least two ICU's of minimum 10 beds on turnkey basis** at any state in India and submit satisfactory report in technical bid.	The bidder have executed any two similar turnkey project in any combination (e.g.ICU/ Modular OT/ CATH Lab etc.) any state in India,the consortium partner's experience shall be given equal wheightage in experience count. Bidder shall submit submit documents in proof.	
4	Page no. 122, Clause 21 Firm should have supplied, installed and commissioned (if required) at least 2 ICU's units of atleast 10 beds in last 36 months i.e. up to the previous month of the date of floating of NIB (the supplies made in the month of floating of NIB shall not be considered).	Firm / Consortium partner of the bidder **should have executed any two similar turnkey project in any combination (e.g.ICU/ Modular OT/ CATH Lab etc.)** in last 36 months i.e. up to the date of submission of bid by the bidder.	
5	SECTION III: QUALIFICATION AND EVALUATION CRITERIA (Contractual experience & Technical experience.) & BF – 7 – Statement of Past Performance & Supplies. The bidder should have established at least two ICU's of minimum 10 beds on turnkey basis at any state in India and submit satisfactory report in technical bid. Point no. 2 Firm should have supplied, installed & Commissioned (If required) at least 2 ICU's units of at least 10 beds in 36 months i.e. up to the previous month of floating of NIB (the supplies made in the month of floating of NIB shall not be considered)	SECTION III: QUALIFICATION AND EVALUATION CRITERIA (Contractual experience & Technical experience.) & BF – 7 – Statement of Past Performance & Supplies. Firm / Consortium partner of the bidder should **have executed any two similar turnkey project in any combination (e.g.ICU/ Modular OT/ CATH Lab etc.)** in any state in India. Point no. 2 Firm / Consortium partner of the bidder **should have executed any two similar turnkey project in any combination (e.g.ICU/ Modular OT/ CATH Lab etc.)** in last 36 months i.e. up to the date of submission of bid by the bidder.	
6	SECTION VI A: GENERAL CONDITIONS OF BID. (i) Past supplies and performance shall be taken into account of lead partner only.	SECTION VI A: GENERAL CONDITIONS OF BID. (i) Past supplies and performance shall be considered of any one / all the partners of the consortium.	
7	SECTION V: SCHEDULE OF SUPPLY a) At the initial 03 ICU's should be established at Dausa, Kekari (Ajmer) and Kotputli (Jaipur) in 30 days. b) After successful completion of first 03 ICU's, rest 45 ICU's should be established in next 60 days.	SECTION V: SCHEDULE OF SUPPLY a) At the initial 03 ICU's should be established at Dausa, Kekari (Ajmer) and Kotputli (Jaipur) in 45 days. b) After successful completion of first 03 ICU's, rest 45 ICU's should be established in next 75 days.	
8	*Additional Point to be added:*	Section-I Instruction to Bidders (ITB) **Bidders are advised to inspect the site before submitting the bid.**	

Please note that all clarification/amendment/corrigendum in technical specifications/bid conditions of bid are integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.

Executive Director (EPM)
RMSCL, Jaipur