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TENDER NO: NHM/PROC/EQUIP-INST/3536/2017-18/1562

Date: 13/04/2018

### CORRIGENDUM No.1

#### e-TENDER FOR ENTERING INTO RATE CONTRACT FOR SUPPLY OF HOSPITAL EQUIPMENT AND INSTRUMENTS

This has reference to the e-tender No: NHM/PROC/EQUIP-INST/3536 /2017-18/41019 Date: 12/3/18 for entering into rate contract for supply of "HOSPITAL EQUIPMENT AND INSTRUMENTS" to different Health Institutions. The following amendment may be taken note of prior to submission of Bids:

**1. Sub-Clause (B) of Clause 5 "TECHNO-COMMERCIAL BID - COVER "A" is amended to read as follows:**

Earnest Money Deposit shall only in the form of Demand Draft/Banker's Cheque/BG favoring "**State Health Society, Assam**", payable at Guwahati. Earnest Money Deposit in the form of Cheque / Cash / Postal order will not be accepted. Earnest Money Deposit will not earn any interest. The Earnest Money Deposit of the successful Bidder may, at the discretion of Tender Inviting Authority be adjusted towards the Security Deposit payable by the Bidder. Earnest Money Deposit for each group is fixed as follows:

Sl.No	Groups	Item Description	EMD (in Rs.)
1	<b>Group A Equipments for OT and ICU</b>	Boyles Apparatus with vaporizer	426,585.60
2		Patient Monitor	406,492.80
3		Operation Table Minor	139,200.60
4		Shadow less lamp Standing Model	207,472.65
5		Operation table Hydraulic Major	114,374.40
6		Ceiling OT Light	131,376.00
7		Surgical Diathermy	348,716.34
8		Vertical Autoclave with dressing drum	295,182.00
9		Defibrillator	529,464.60
10		Single channel ECG	3,501.75
11		Ventilator (Pediatric	539,269.50
		& Adult)	

12		Ventilator (Neonates to adult)	895,047.30
13		Transport Ventilator	539,269.50
14		12 channel ECG	64,922.45
15		Blood Gas Analyzer	358,800.00
16		Vertical Auto clave 30 ltrs with dressing	85,698.00
1	<b>Group B</b>	Bowl stand with Bowl	9,691.28
2		Instrument Tray	8,464.00
3		Electrical sterilizer(Big)	7,486.50
4		Electrical sterilizer(Medium)	7,486.50
5		Electrical sterilizer(Small)	7,486.50
6		Auto Clave	7,486.50
7		Spot light	7,003.50
8		B.P. Apparatus	3,082.00
9		Electronic B.P. machine	2,392.00
10		Suction Apparatus	14,973.00
11		Sponge Holding Forceps	21,252.00
12		Baby Tray	16,180.50
13		Surgical Drum	9,780.75
14		Electric needle destroyer	1,743.63
15		Vacuum Extractor	1,472.00
16		Weighing Scale Adult	1,436.03
17		Weighing Scale Infant	12,428.88
18		Foetal Doppler	12,780.18
19		Fumigation machine	33,508.13
20		MTP Suction machine	22,411.20
21		Inst for Normal & Epistomy kit	9,715.20
22		Instrument for C-Section and other operation	11,500.00
23		Oxygen Cylinder B Type with flow meter and wrench	12,751.20
24		Oxygen Cylinder trolley	3,795.00
25		Oxygen Cylinder A Type	9,273.60
26		Nitrous Oxide Cylinder	9,273.60
27		Jumbo Oxygen Cylinder (D-Type)	241,028.04
28		Finger tip Pulse Oximeter	2,869.07
29		Foot Suction	4,561.36
30		Kidney Tray SS	1,929.42
31		Inst Tray without cover	7,963.34
32		Dressing Tray	2,732.40
33		X-ray view box	14,701.60
34		Stethoscope(A)	4,031.81
35		Stethoscope(Neo)	1,878.27
36		Bed pan male	2,344.16
37		Bed pen female	2,344.16

38		Urinal Male	1,632.54
39		Urinal Female	1,632.54
40		Suction Pump Portable	23,425.50
41		Suction Pump, foot operated	22,310.00
1	<b>Group C</b>	Semi Auto Analyser	104,980.05
2		Binocular microscope (Electric)	50,207.85
3		Electric Centrifuge Table Top	23,212.98
4		Single Channel Variable volume Micropipette	16,562.07
5		8-Channel Variable volume Micropipette	16,562.07
6		Hemoglobinometer	39,775.05
7		Gluco-meter	1,996.00
8		Glucometer Strips compatible with the Quoted Glucometer	
9		Water bath	33,254.55
10		Hot air oven	41,731.20
11		Lab incubator	43,035.30
12		Reagent Refrigerator Storage with external temperature indicator	22,872.47
13		Vibration free refrigerator with servo voltage stabilizer and circular chart for blood storage	153,622.98
14		Domestic Refrigerator	24,012.00
1	<b>Group D</b>	Radiant Warmer	239,804.67
2		Phototherapy Unit	59,116.79
3		LED Phototherapy	45,954.00
4		Resusciator, neonate 500 ml (with 0 size mask)	10,505.25
5		Resusciator, neonate 250 ml (with 0 size mask)	10,505.25
6		Laryngoscope Set, Neonates	7,801.60
7		Syringe Pump	60,080.39
8		Oxygen Hood	2,205.10
9		PICU Beds	38,640.00
10		Oxygen Concentrator	144,042.68
11		Thermometer, Clinical, digital-(32 deg C -43 deg C)	147.20
12		Electronic Baby Weighing Machine	8,936.47
13		Pulse Oximeter	63,354.14
14		Measuring Tape	500.25
15		Infantometer	1,623.62
16		Bubble CPAP with Compressor	257,600.00

17		Paediatric Colour Doppler with facility for Ecocardiology	345,000.00
18		Paediatric Ecocardiology	172,500.00
19		Stop Watch	41.40
20		Nebulizer	6,211.10
21		Bronchoscope	46,000.00
22		Stadiometer	920.00
23		Chairs with high back for breastfeeding	1,150.00
24		Billirubinometer	10,350.00
25		Washing Machine	3,450.00
26		Air Conditioner	5,750.00
1	<b>Group E</b>	Colour Doppler USG with Servo Voltage Stabilizer	324,000.00
2		USG machine(Black and White)	
3		Portable 100 Ma X-Ray Machine	702,000.00
4		500 Ma X-Ray Machine	1,296,000.00
1	<b>Group F</b>	Surgical Operating Microscope For E.N.T. USE	35,000.00
2		Micro drill System with hand piece and Burr heads	20,000.00
3		Ear Surgery Instruments	30,000.00
4		Impedance Audiometer	30,000.00

**2. Technical specification of following items of Annexure – XI “Technical Specification cum Compliance Statement” is amended to read as follows:**

**Annexure – XI  
Technical Specification cum Compliance Statement:  
(TO BE SUBMITTED BY THE MANUFACTURER)**

**GROUP A: Equipments for OT and ICU:**

<b>Sl</b>	<b>Name</b>	<b>Technical Specs quoted by bidder</b>	<b>Deviation if any</b>
9.	<p><b><u>Defibrillator:</u></b></p> <ul style="list-style-type: none"> <li>• The defibrillator should be latest, lightweight, small size with bright colored display.</li> <li>• The defibrillator should be Biphasic waveform with 3 wave form display with screen size minimum 6.5 inches diagonal.</li> <li>• It should display of both selected and delivered energy.</li> <li>• The machine should have facility to increase/decrease energy selection on</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p>paddles as well as on unit.</p> <ul style="list-style-type: none"> <li>• In manual mode the unit should provide energy selection at (1-10, 15, 20, 30, 50,70,85,100,150,200) joules.</li> <li>• It should have ability to measure chest compression rate and depth in real time with both visual &amp; audible feedback for rate and depth with CPR INDEX for adult and pediatric patients.</li> <li>• The unit should have transcutaneous external pacing with 40 milli-second pulse width.</li> <li>• The unit should do self test daily with facility to give print out of defibrillator testing report and also have code ready indicator on unit.</li> <li>• It should have ability to filter out CPR artifacts and allowing person to see organized filtered rhythms without interrupting chest compressions.</li> <li>• The Unit should be supplied with following accessories <ul style="list-style-type: none"> <li>• <b><i>Battery backup should be at least 60 mins or more.</i></b></li> <li>• 3-lead ECG cable- 1 nos</li> <li>• External defibrillator paddles (pediatric inbuilt in adult)- 1 nos</li> <li>• CPR feedback sensor with defibrillation padz for adult/pediatric patients – 2 nos</li> <li>• The unit should be upgradable to Spo2 , NIBP &amp; ETCO2 and to internal defibrillation facility if required .</li> <li>• <b>Should have CE and ISO 9001:2008 and ISO 13485:2012 certification.</b></li> <li>• <b><i>Warranty.5 years.</i></b></li> </ul> </li> </ul>		
11.	<p><b><u>Ventilator (Pediatric &amp;Adult)</u></b></p> <p><u>Description of Function</u></p> <ul style="list-style-type: none"> <li>• ICU ventilators should provide artificial respiratory support to the critical patients in all the types of Intensive Care Units.</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p><u>Operational Requirements</u></p> <ul style="list-style-type: none"> <li>• It should be microprocessor Controlled ventilator with integrate facility for Ventilation monitoring suitable for Paediatric &amp; adult ventilation.</li> <li>• The gas delivery mechanism (internal compressor/turbine) should be able to provide precise gas delivery and should be of the latest model.</li> </ul> <p><u>Technical Specifications</u></p> <ul style="list-style-type: none"> <li>• Hinged arm holder for holding the circuit</li> <li>• Should have Colored Touch screen, 8 inch or more.</li> <li>• It should have inbuilt facility to measure and display for all patient category (Paediatric &amp; Adult)</li> </ul> <p>3 waves- Pressure and Time, Volume and Time and Flow and Time. Co2 and Time</p> <p>2 loops- P-V, F-V, Also facility to display volumetric capnography loops.</p> <p>Graphic display to have scaling facility for waves, Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock etc.</p> <ul style="list-style-type: none"> <li>• <i>Simultaneous/Sequential display of SET and exhaled parameter , 3 waveform and 2 loops and Alarm</i></li> <li>• Should have Trending facility for 24 hours or better.</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p>Should have Automatic compliance &amp; Leakage compensation.</p> <ul style="list-style-type: none"> <li>• Inbuilt ETCO2 to be quoted as optional accessories as per available specification.</li> <li>• Should have following settings for pediatric &amp; adult age groups.</li> <li>• Delivered Tidal Volume min 20 ml to 1000 ml</li> <li>• Pressure (insp) 2- 60 cmH2O</li> <li>• Respiratory Rate 2 to 80 bpm or better, Insp. Time 0.3 /better to 9 sec, I:E ratio 1:9 to 4:1 (DuoPAP/BiPAP/BiPhasic 1:9 to 4:1)</li> <li>• Insp. Flow (resultant) up to 180 LPM,</li> <li>• CPAP/PEEP 0-35 cmH2O</li> <li>• Pressure support 2-60 cmh2O</li> <li>• FIO2 21 to 100%</li> <li>• Pause Time 0 to 2 sec</li> <li>• Flow Trigger 0.2 to 12 lpm or Pressure Trigger 0.5 to 15 cmH2O</li> <li>• Expiratory trigger or exhalation sensitivity - 5-75-% of flow</li> </ul> <p>Should have monitoring of the following parameters</p> <ul style="list-style-type: none"> <li>• Airway Pressure (Peak &amp; Mean)</li> <li>• Tidal volume (Inspired &amp; Expired)</li> <li>• Minute volume ( Expired)</li> <li>• Spontaneous Minute Volume</li> <li>• Total Frequency</li> <li>• FIO2</li> <li>• Intrinsic PEEP Volume (or trapped Volume)</li> <li>• Plateau Pressure</li> <li>• Resistance &amp; Compliance</li> <li>• User selector Alarms for all measured &amp; monitored parameters</li> </ul> <ul style="list-style-type: none"> <li>• Should have following modes of</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p>ventilation</p> <ul style="list-style-type: none"> <li>• Volume control (A/C)</li> <li>• Volume SIMV</li> <li>• Pressure A/C</li> <li>• Pressure SIMV</li> <li>• CPAP/ SPON with PSV</li> <li>• APRV (Optional)</li> <li>• DUOPAP /BIVENT // BiPAP / BiPhasic (Optional)</li> <li>• NIV</li> <li>• The Ventilator should be supplied with advanced Lung protective modes such as: <ul style="list-style-type: none"> <li>- NAVA or ASV or SMART CARE or PAV+ .</li> </ul> </li> <li>• Should have facility for closed loop ventilation</li> <li>• Should have Apnea /backup ventilation or better.</li> <li>• Expiratory block should be sterilizable and no routine calibration required.</li> </ul> <p>Should have monitoring of the following parameters</p> <ul style="list-style-type: none"> <li>• Intrinsic Peep</li> <li>• Occlusion Pressure( P0.1) , Max Inspiratory pressure (Pi max)</li> <li>• RSBI</li> <li>• should have leak compensation facility</li> <li>• Should have integrated Nebulizer with capability to deliver fine particle size of to be used in line or with automatic compensation.</li> <li>• Should integrated Battery backup for 3 hour or more for the gas delivery mechanism.</li> <li>• Facility for communications with networked devices.</li> <li>• System Configuration Accessories, spares and consumables.</li> <li>• ICU Ventilator with trolley – 01.</li> <li>• Humidifier -Servo controlled US-FDA approved humidifier with digital</li> </ul>		



SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p>monitoring of inspired gas temperature - 01.</p> <ul style="list-style-type: none"> <li>• All other standard accessories and consumables should be provided free of cost within the warranty period.</li> <li>• Power input to be 220-240VAC, 50Hz</li> <li>• Gas input (air and oxygen) - 50-100 psi.</li> <li>• The machine and the delivery mechanism (internal compressor/turbine) should be US-FDA and CE Certified.</li> <li>• Warranty for 5 yrs.</li> </ul>		
12.	<p><b><u>Ventilator (Neonates to adult)</u></b></p> <ul style="list-style-type: none"> <li>• Should be able to ventilate patients with body weight from 400 grams to 200 kg.</li> <li>• Should have battery back-up for the ventilator as well as compressor (internal/external) for a minimum of 3hrs operation.</li> <li>• Should have high resolution screen with colour display of at least 8 inches screen size.</li> <li>• Should have an integrated electronic blender for blending Air &amp; Oxygen.</li> <li>• <b>Should have based on external/ internal compressor/Turbine (From same manufacturer &amp; US-FDA approved).</b></li> <li>• Should have US-FDA and European CE certification for neonatal use.</li> <li>• The flow sensor should be reusable and Autoclavable and should be located proximal between the Y piece and Endotracheal tube.</li> <li>• Should have device checking mechanism where it can determine and display the compliance and resistance of the system; determine leakage in the patient hose system and checking of valves, gas supply system, flow sensors etc.</li> <li>• Should have an automatic leak compensation facility that provides sensitive triggering even with changing ET-Tube leaks.</li> </ul> <p><b>Ventilation Modes required:</b></p>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>• V CMV or PCVG CMV</li> <li>• V SIMV or PCVG SIMV</li> <li>• PCMV ,</li> <li>• PSIMV ,</li> <li>• CPAP/ SPON ,</li> <li>• Upgradeable APRV , (<b>To be quoted optional</b>)</li> <li>• Upgradeable DUOPAP , (<b>To be quoted optional</b>)</li> <li>• Upgradeable <b>NCPAP (To be quoted optional)</b></li> <li>• Should have apnea backup facility with backup settings configured for neonates.</li> </ul> <p><b>Waveforms and loops:</b></p> <ul style="list-style-type: none"> <li>• Scalar graphics - for pressure, volume and flow; scale should be user selectable and adjustable for neonatal settings.</li> <li>• Loop Graphics - for pressure volume, flow volume, pressure flow combinations; scale should be user selectable and adjustable for neonatal settings.</li> <li>• Should have freezing and measuring facility for loops and curves. Freeze and Analysis cursor in all loops. Curves. Freeze and Analysis cursor in all loops.</li> <li>• Facility of moveable cursors to read numeric values at any point on the loop where the cursors is kept.</li> <li>• Should have adjustable inspiratory flow patterns from square wave, sinusoidal and decelerating wave.</li> </ul> <p><b><u>Ventilator Parameters and settings:</u></b></p> <ul style="list-style-type: none"> <li>• Should have knobs for setting following parameters – Peak pressure ( 5-60 cmH2), Positive end expiratory pressure (PEEP- 0-30 cmH2O), Respiratory rate ( 0-150 bpm), Inspiratory rate (0.1 to 2 sec) &amp; Expiratory time( 0.1 to 10 sec)/automatic , Oxygen concentration (in 1% increments or decrements), tidal volume ( 2 ml – min 1800 ml)</li> <li>➤ Should be able to monitor the following parameters : Peak pressure, PEEP, Mean</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p>airway pressure (MAP), Respiratory rate, FiO<sub>2</sub>, Minute volume, Tidal Volume (Inspired &amp; Expired, Leak percentage), Resistance, Compliance</p> <p><b><u>Should have following settings and ranges:</u></b></p> <ol style="list-style-type: none"> <li>a) Inspiration time: 0.1 - 3 sec</li> <li>b) Expiration time: 0.1 - 10 sec/automatic</li> <li>c) Respiratory rate up to 300 breaths per minute in conventional modes</li> <li>d) Flow: Preset patterns - Square, Sinusoidal, decelerating</li> <li>e) PEEP: 0 - 30 mbar/cmH<sub>2</sub>O</li> <li>f) Inspiratory pressure: 5 - 50 mbar/cmH<sub>2</sub>O</li> <li>g) Tidal volume: 2ml-1800ml</li> <li>h) Proximal flow trigger facility with a trigger sensitivity of at least 0.2l/min</li> <li>i) Oxygen concentration (FiO<sub>2</sub>): 21% to 100%</li> </ol> <p><b>Display:</b></p> <ul style="list-style-type: none"> <li>• Inspiratory time %</li> <li>• Ventilator rate</li> <li>• Mean airway pressure</li> <li>• Inspired oxygen concentration</li> <li>• Tidal volume &amp; Minute ventilation</li> <li>• Trends of set and measures parameters with a trend memory of at least 24 hrs.</li> <li>• Leak percentage</li> <li>• Display of silenced alarms</li> </ul> <p><b>Alarms Limit:</b> Should have visual as well as audible alarms with user adjustable alarms levels with text message for:</p> <ul style="list-style-type: none"> <li>• Power failure</li> <li>• Circuit disconnection</li> <li>• Low tidal volume</li> <li>• Minute volume</li> <li>• Tidal volume</li> <li>• Peak Pressure</li> <li>• PEEP</li> <li>• Mean airway pressure</li> <li>• Patient disconnection</li> <li>• Gas failure</li> <li>• Low &amp; High FiO<sub>2</sub></li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p><b>Power Supply:</b> 220 - 240V and 50-60 Hz</p> <p><b>Miscellaneous:</b></p> <ul style="list-style-type: none"> <li>• Complete unit should be mounted on a sturdy pedestal imported trolley with good quality castors for easy movement of the complete ventilator. At least 2 of the four wheels should be lockable.</li> <li>• Each unit should have a circuit hanger to support the patient circuit.</li> <li>• Each unit should be supplied with a heated servo controlled US-FDA approved humidifier with neonatal breathing circuit.</li> <li>• Nebulizer: Should be inbuilt and preferably volume compensated with a time – programmable flow mechanism to deactivate nebulizer</li> <li>• Manual oxygen key while suction; user adjustable oxygen concentration delivery while this manual mode is operated.</li> <li>• Should have an adjustable mechanism relief valve for excess pressure.</li> <li>• In case of external compressor based Ventilator, it should be able to connect to central air line via external compressor so that the compressor automatically switches ON when air pressure in the central line drops below the recommended level</li> <li>• Should be able to connect to central O2 line.</li> <li>• Each unit should come with 1 set of standard oxygen &amp; Air hoses with hose connectors.</li> </ul> <p>Standard accessories and consumables to be provided free of cost during warranty.</p> <p>Warranty for 5 yrs.</p>		
14	<p><b><u>12 channel Portable ECG Machine:</u></b></p> <ul style="list-style-type: none"> <li>• Should have 8" high resolution color touch-screen</li> <li>• Should have alphanumeric keyboard and one touch operation</li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<ul style="list-style-type: none"> <li>• Should have 12 leads simultaneously</li> <li>• Should be Automatic measurement and interpretation tested with authoritative CSE/AHA/MIT database</li> <li>• Should be Built in rechargeable Li-ion battery for 300 ECG report printing</li> <li>• Should have minimum 200 ECG recordings storage capacity</li> <li>• Rhythm should be Single or Three channel selectable</li> <li>• Support external printer via USB port</li> <li>• Should have Auto/Manual/Rhythm/R-R/off</li> <li>• <b><i>Should have inbuilt/external Thermal Printer compatible for A4 size paper.</i></b></li> <li>• Record speed should 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)</li> <li>• Should have Display size 320X240 dots single color /multicolor LCD Screen</li> <li>• Should have Automatic Baseline Adjustment</li> <li>• Data transmitting to PC via LAN &amp; Wi-Fi</li> <li>• <b><i>AC : 100V-115V/220V, 50/60 Hz, built-in rechargeable Li-ion battery or lead acid battery or any rechargeable battery ; voltage =14.8V</i></b></li> <li>• Should be support through linear/2D BARCODE SCANNER</li> <li>• Weight should be max. 5kg</li> <li>• Should have 420mm* 330mm* 105mm dimension</li> <li>• Should have USFDA/ CE and ISO 9001:2008 and ISO 13485:2016 certification.</li> </ul> <p><b><i>Warranty. 5 years.</i></b></p>		
15	<p><b><u>Blood Gas Analyzer</u></b></p> <ul style="list-style-type: none"> <li>• <b><i>Small, easy to operate and portable system capable of measuring pH, P<sub>CO<sub>2</sub></sub>, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Glucose (optional), Lactate, Hematocrit.</i></b></li> <li>• <b><i>All the tests blood gases / electrolytes / glucose / lactate should be performed on</i></b></li> </ul>		

SI	Name	Technical Specs quoted by bidder	Deviation if any
	<p><i>one or more than one single –use disposal cartridge.</i></p> <ul style="list-style-type: none"> <li>• Upgradeable to future parameters like Cl<sup>-</sup>, Creatinine (optional) on the same card.</li> <li>• The system should be USFDA and CE Certified.</li> <li>• Sample requirement –not more than 100 µl.</li> <li>• The system should be capable of storing 2000 patient results.</li> <li>• The single-use test cartridges should be self contained with all the reagents, sensors &amp; calibrating solutions required for running.</li> <li>• Tests cartridge should be stored at room temperature without any requirement for refrigeration.</li> <li>• System should be provided along with a dedicated wireless (IR/Bluetooth) Thermal Printer.</li> <li>• System should be capable of recharging during operation.</li> <li>• System should be Amperometric, Potentiometric, Conduct metric sensors for measurement.</li> <li>• Should have an EMBEDDED and detachable BARCODE READER</li> <li>• System should be capable to Bluetooth and Wi-Fi connectivity for wireless connectivity.</li> <li>• Operation:</li> <li>• AC adapter or rechargeable Li-Ion battery</li> <li>• The system should have at least 6 hours of standby time.</li> <li>• System should come along with a Windows based Personal Digital Assistant to control the entire system &amp; printer.</li> <li>• The product should be CE &amp; US-FDA certified.</li> <li>• Warranty: - 05 years.</li> </ul>		

**GROUP C:**

SI	Name	Technical Specs quoted by bidder	Deviation if any

SI	Name	Technical Specs quoted by bidder	Deviation if any
6.	<p><b><u>Haemoglobinometer</u></b></p> <ul style="list-style-type: none"> <li>• <i>Fast &amp; precise measure of Hemoglobin.</i></li> <li>• Measurement at two wavelengths, 570 nm &amp; 880nm</li> <li>• The machine should have an option of setting the cut off range of flag the extremely higher and lower values.</li> <li>• Should have user friendly Graphical Touch Screen Panel.</li> <li>• Analyser automatically stores up to 100 results with date, time and sex</li> <li>• Automatic self test</li> <li>• Measuring range 0-256 g/L (0-25.6 g/dl,0-15.9 mmol/L)</li> <li>• Measuring time- Less than 60 secs</li> <li>• Analyzer should have in-built rechargeable battery with 100 hrs back up.</li> <li>• For Quality control Cuvettes to be provided for QA.</li> <li>• PC and printer connectivity option</li> <li>• Calibrated against the international reference method for hemoglobin determination.</li> <li>• The instrument must be CE or US FDA approved and manufacturer will be ISO 9001:2008/ISO 13485: 2012 certified.</li> </ul> <p><b><i>Warranty for 2 years.</i></b></p>		

3. Price for optional items may be separately quoted in the amended BOQ for Group A. In case the bidder tends to indicate price for consumables etc., they may

quote separately and upload online only, with the tender document.

Technical Specifications of all other items shall remain unchanged. The tendered technical specifications are the minimum requirement. Items with better specification will also be accepted.

All other terms and conditions of the tender referred to above shall remain unchanged. The start and end date of bid submission is extended to **24/04/2018 and 30/04/2018 up to 2:00 PM respectively.**

**Sd/-  
Mission Director, NHM, Assam**