

Madhya Pradesh Public Health Services Corporation Ltd.

Pre-bid query Resolution Uploading Date 07-03-19

Tender Enquiry No.: 11/MPPHSCL/ MH & CH Equipments/2019

S.No.	Item No.	Item name	Specification in the Floated Tender	Recommendation from bidder with Justification	Amendments
Item no.1-Bubble- C- PAP					
1	1	Bubble- C- PAP	Unit should be supplied with International FDA or CE (European Conformity) safety regulations & certifications.	it Should have USFDA and Europeon CE product for maintaing the quality of the product	Replaced as- Unit should be supplied with International USFDA and CE (European Conformity) safety regulations & certifications.
2	1	Bubble CPAP	17. List of equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical annual . Function : Complete solution to all difficulties faced in Bag -n- mask type resuscitation. PEEP Control valve to maintain minimum positive presssure at. the end of expiration to keep lungs inflated . Overall control over system by setting maximum pressure relief to the system .	Please clarify , are these equipment to be supplied with each system or you need that service engineer should have these equipment when he does the calibration and preventive maintenance .	Clarification- Service engineer should have these equipment when he does the calibration and preventive maintenance .
3	1	Bubble CPAP			Added- Bidders are requested to quote the rates of accessories, 100 each in revised price sheet and this price shall be added to the quoted equipment price for price comparison .The price of consumable shall be fixed for three years from the date of contract agreement .
Item no.2-BiPAP (Non- Invasive)					
3	2	BiPAP (Non- Invasive)	Ventilation Modes : Spontaneous/ Spontaneous- Time/ CPAP	Ventilation Modes to be added: Timed & Pressure Control Reason- Non Invasive ventilatory support system to ensure proper ventilation to OSA and respiratory insufficiency patients with hypoventilation caused by restrictive thoracic disorders, obesity hypoventilation syndrome, central apnea and COPD	No change
4	2	BiPAP (Non- Invasive)	IPAP : 4 to 20/25/30/ or more cmH2O	IPAP: 4 to 30 or more Reason-Range to be specific to qualify the appropriate product for precise clinical need	No change
5	2	BiPAP (Non- Invasive)	EPAP : 4 to 15/20/25 CmH2O	EPAP: 4 to 25 or more Reason-Range to be specific to qualify the appropriate product for precise clinical need	No change
6	2	BiPAP (Non- Invasive)	Frequency Setting : 5 to 50 BPM	Frequency Setting: 5or less to 30 BPM or more Reason- for more bidders to qualify in tenders	No change
7	2	BiPAP (Non- Invasive)	Certificates: European CE /USFDA	CE & USFDA	Replaced as- Certificates: European CE and USFDA
8	2	BiPAP (Non- Invasive)		Targeted tidal volume setting 200ml- 1500 ml or more Reason-Hybrid ventilation is essential for patients with Type 2 respiratory disorders or insufficiencies (In specification Tidal Volume is not mention)	No change

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9	2	BiPAP (Non- Invasive)	Certificates: European CE /USFDA	it Should have USFDA and European CE product for maintaing the quality of the product	Replaced as- Certificates: European CE and USFDA
10	2	BiPAP (Non- Invasive)	1.IPAP : 4 to 20/25/30/ or more cmH2O 2.Rise Time Range : 100 to 600 MS adjustable 3. Frequency Setting : 5 to 50 BPM	1.IPAP : 4 to 20/25 cmH2O - In Tender Specification EPAP upto 25cmH2O 2. Rise Time setting level 150 to 400 ms Adjustable 3. respiration rate should be 3 to 40 Breath Per Minutes	No change
11	2	BiPAP (Non- Invasive)	Ventilation Modes : Spontaneous/ Spontaneous- Time/ CPAP	Modes to be added: Timed (T) & Pressure Control (PC) Reason-NIV devices ensures proper ventilation to respiratory insufficiency patients with hypoventilation caused by restrictive thoracic disorders, obesity hypoventilation syndrome, central apnea and COPD and OSA	No change
12	2	BiPAP (Non- Invasive)	IPAP : 4 to 20/25/30/ or more cmH2O	IPAP: 4 to 30 CM H2O or more Reason-Specific range to qualify the correct product for precise clinical requirements	No change
13	2	BiPAP (Non- Invasive)	EPAP : 4 to 15/20/25 CmH2O	EPAP: 4 to 25 CM H2O or more Reason-Specific range to qualify the correct product for precise clinical requirements	No change
14	2	BiPAP (Non- Invasive)	Frequency Setting : 5 to 50 BPM	Frequency Setting: 5 BPM or less to 30 BPM or more Reason-For more bidders to qualify in tenders	No change
15	2	BiPAP (Non- Invasive)	Accessories : 1 set of full face Adult Resuable ,Autoclavable mask and hose set and 1 set of full face paediatric Reusable , Autoclavable mask and hose set . Note : Disposable adult and paediatric mask set should be quoted in technical bid separately	Quantity to be 3 instead 1 & Mask should be from the same Manufacturer Reason-Devices are cibrated with the mask from the same mnaufacturers so as to ensure better clinical output and better patient compliance and also for leak compensation and mask resistatnce	Replaced as- 3 set of full face Adult Resuable ,Autoclavable mask and hose set and 3 set of full face paediatric (small & medium) Reusable , Autoclavable mask and hose set. Note : Disposable adult and paediatric mask set should be quoted in technical bid separately
16	2	BiPAP (Non- Invasive)	Certificates: European CE /USFDA	CE & USFDA	Replaced as- Certificates: European CE and USFDA
17	2	BiPAP (Non- Invasive)	Points to be added	Ventilation Modes: Timed & Pressure Control Reason-NIV devices ensures proper ventilation to respiratory insufficiency patients with hypoventilation caused by restrictive thoracic disorders, obesity hypoventilation syndrome, central apnea and COPD and OSA	No change
18	2	BiPAP (Non- Invasive)	Points to be added	Targeted tidal volume setting 200ml- 1500 ml or more Reason-Volume assured support ventilation is essential for patients with Type 2 respiratory disorders or insufficiencies and also ensures the assured tidal volume to the patient so that hybrid ventialtion and therapy is delivered	No change
19	2	BiPAP (Non- Invasive)	Leak detection & Power failure alarm	Machine should have following safety alarms - Power failure, mask off, apena, high and low rate alarm, motor failure and low MV	Replaced as- Leak detection, apena & Power failure alarm
20	2	BiPAP (Non- Invasive)	Frequency Setting : 5 to 50 BPM	frequncy of machine should be 0 to 40 BPM is sufficient for adult patient	No change

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21	2	BiPAP (Non- Invasive)	point no 1 , Ventilation Modes : Spontaneous/ Spontaneous- Time/ CPAP	kindly add 1. VAPS mode (voulme assure pressure support mode) .clinical usage of vaps mode : it helps in increasing co2 washout of the patient 2. it helps in acheivng desired tidal volume by adjusting and changing pressure where as in other modes pressure are fixed .	No change
22	2	BiPAP (Non- Invasive)		pls also add -Timed mode (T), as this mode helps in giving controlled breath in a minute.	No change
23	2	BiPAP (Non- Invasive)		dear sir , non invasive ventilator should have proper monitoring in screen .kindly specify and add therapy monitoring screen should have display : 1.pressure 2. leak- so that clinician can tight or lose the mask 3. breath rate 4. tidal volume 5. inspiration time minimum and maximum	No change
24	2	BIPAP (Non-Invasive)	5. Rise Time Range : 100 to 600 ms adjustable	5. Rise Time Range : Please change 150 to 400 ms adjustable instead of 100 to 600 ms adjustable. Most of the companies have rise time in the range of 150 to 400 ms . Actual requirement is in this range .	No change
25	2	BIPAP (Non-Invasive)	7. Frequency Setting : 5 to 50 BPM	7. Frequency Setting : Please change to 5 to 40 BPM instead of 5 to 50 BPM , this will encourage broader participation	No change
26	2	BIPAP (Non-Invasive)	9. Accessories : 1 set of fullface adult reusable ,auto clavable mask and hose set and 1 set of full face paediatric reusable ,autoclavable mask and hose set . Note: Disposable adult and paediatric mask set should be quoted in technical bid .	9. Accessories : 1 set of fullface adult reusable ,auto clavable mask and hose set - <u>Size Large</u> ,1 set of fullface reusable ,auto clavable mask and hose set <u>Size Medium</u> and 1 set of full face reusable ,autoclavable mask and hose set - <u>Size Small</u> . Note: Disposable masks of all sizes should be quoted in technical bid . Since the masks come in three sizes , you should ask for all sizes masks otherwise , large sized mask will not be suitable for patient having requirement for small sized one . This will lead to leakage .Moreover in BIPAPs masks are labelled as S/M/L and not as Adult and Pedeatric .	Replaced as- 3 set of full face Adult Resuable ,Autoclavable mask and hose set and 3 set of full face paediatric (small & medium) Reusable , Autoclavable mask and hose set. Note : Disposable adult and paediatric mask set should be quoted in technical bid separately
Item no.3-Oxygen Concentrator					
27	3	Oxygen Concentrator	To deliver 8 Litres /min	To deliver between 5 Lt or more Reason-Most reputed and USFDA approved manufacturers have either 5 l/min . (Eg: Respironics, Devilbiss, Nidek AirSep) (Specification is in one specific company favour)	Replaced as- To deliver 5 Litres /min
28	3	Oxygen Concentrator	Dual Port (each can deliver 4 litres / min)	Single Port Reason-Exact seperation of each equal flow between two hoses is difficult to achieve 4 l/min on each port (One company specific requirement)	Replaced as- Dual Port (each can deliver upto 5 litres / min)
29	3	Oxygen Concentrator	Advantage: can be connected to 2 patients at a time	Reason- 2 patients may have different flow requirement of oxygen & How this will help	No change
30	3	Oxygen Concentrator	Flow rate – 1-10lpm	Flow rate 5 l/min or more Reason- Specific for one manufacture	Replaced as- Flow rate – 1-5 lpm or more

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31	3	Oxygen Concentrator	Outlet pressure – 18-20 psig	Outlet Pressure- 5psi or more Reason- Specific for one manufacture	Replaced as- Outlet pressure – 5psi or more
32	3	Oxygen Concentrator	Advantage: can be connected to 2 patients at a time	Single Port Reason- 2 patients may have different flow requirement of oxygen & How this will help	No change
33	3	Oxygen Concentrator	1. To deliver 8 Litres /min 2. Outlet Pressure - 18-20PS	1.Flow rate – 1-8lpm - in tender specifications flow rates 1-10lpm or otherwise change delivery should be 10ltr/min 2.outlet pressure recommended to change 7.25 - 11.6ps	Replaced as- To deliver 5 Litres /min Replaced as- Outlet pressure – 5psi or more
34	3	Oxygen Concentrator	1. To deliver 8 Litres /min 2.Dual Port (each can deliver 4 litres / min) 4.Flow rate – 1-10lpm	Requirement is not specific as Point1,2 and Point 4 contradict each other. Not clear whether requirement is for 8lit/min or 10 lit/min	Replaced as- To deliver 5 Litres /min Replaced as- Dual Port (each can deliver upto 5 litres / min) Replaced as- Flow rate – 1-5 lpm or more
35	3	Oxygen Concentrator	Outlet pressure – 18-20 psig	It should be <10 psig as all the Oxygen Concentrators presently selling in the markets have below 10psig outlet pressure.	Replaced as- Outlet pressure – 5psi or more
36	3	Oxygen Concentrator	Certificates:- European CE/USFDA	product should be European CE and USFDA Since it is a life supporting machine, this will ensure better quaiity standard, this will also eliminate inferior quality product	No change
37	3	Oxygen Concentrator	Flow rate – 1-10lpm	should be flow rate -1-8 lpm as per point no. 1 and 2.1	Replaced as- Flow rate – 1-5 lpm or more
38	3	Oxygen Concentrator	To deliver 8 Litres /min	To deliver between 5 Lt or more Reason-One company favouring specification.Most reputed and USFDA approved manufacturers have either 5 l/min . (Eg: Respironics, Devilbiss, Nidek AirSep)	Replaced as- To deliver 5 Litres /min
39	3	Oxygen Concentrator	Dual Port (each can deliver 4 litres / min)	Single Port Reason-Seperation of each equal flow between two hoses is difficult to achieve 4 l/min on each port (One company specific requirement)	Replaced as- Dual Port (each can deliver upto 5 litres / min)
40	3	Oxygen Concentrator	Advantage: can be connected to 2 patients at a time	Reason-Different patients may have different flow requirement of oxygen and how one can esure a specific oxygen flow can be given to the patient.	No change
41	3	Oxygen Concentrator	Flow rate – 1-10lpm	Flow rate 5 l/min or more Reason-Flow rate 5 l/min or more	Replaced as- Flow rate – 1-5 lpm or more
42	3	Oxygen Concentrator	Outlet pressure – 18-20 psig	Outlet Pressure- 5psi or more	Replaced as- Outlet pressure – 5psi or more
43	3	Oxygen Concentrator	Advantage: can be connected to 2 patients at a time	Single Port Reason-2 patients may have different flow requirement of oxygen & How this will help	No change
44	3	Oxygen Concentrator	Certificates:- European CE/USFDA	CE & USFDA Reason-CE & USFDA certifications are necessary so as to to ensure the highest quality standards are bring maintained and the customer gets the best product.	No change
45	3	Oxygen Concentrator	Oxygen Purity : 93% +- 3%	Oxygen Purity : 93% +- 3% Reason-Oxygen	No change

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46	3	Oxygen Concentrator	Weight : 15 Kgs or less	Weight : 15 Kgs or less Reason-For easy transport of the oxygen concentrator	No change
47	3	Oxygen Concentrator	Nosie level : 45bda or less	Nosie level : 45bda or less Reason-A quieter machine would be ideal in critical care department so that it ensures patient comfort	No change
48	3	Oxygen Concentrator	Power consumption : 350 watts or less	Power consumption : 350 watts or less Reason-Less power consumption is essential	No change
49	3	Oxygen Concentrator	Canual connector should be Metallic	Canual connector should be Metallic Reason-For better durability and avoid any breakage of the connector	No change
50	3	Oxygen Concentrator	3. 24 hour usable	Oxygen Concentrator usually requires a break of 30 minutes to cool down the Compressor after continuous operation of 6-12 hours. So we are recommending to mention specification as "6 hours of continuous operation with 30 minutes break"	No change
51	3	Oxygen Concentrator	4. Flow rate – 1-10lpm	This specification is already mention in point no. 1 as "To deliver 8 Litres /min". So plz confirm which point we should consider	Replaced as- Flow rate – 1-5 lpm or more
52	3	Oxygen Concentrator	6. Advantage: can be connected to 2 patients at a time	Delete this point as it already mentioned in Point 2.2	No change
53	3	Oxygen Concentrator	5.1 : Outlet pressure - 18 - 20 PSIG	Outlet pressure 8-10 PSIG ; This pressure range is available with most manufacturers .	Replaced as- Outlet pressure – 5psi or more
54	3	Oxygen Concentrator	5.2 : Alarms -1 Power Failure , 2. High & Low Pressure 3. Low Purity Test , Temperature	Please delete High/Low pressure , low purity test which will encourage braider participation .	No change
55	3	Oxygen Concentrator	7: Certificates :- European CE / FDA	Certificates :- European CE/FDA /ISO 13485 ; To encourage partification from Indian manufacturers please incorporate ISO 13485 also .	No change
Item no.4- SHADOW Less Lamp Double dome					
56	4	SHADOW Less Lamp Double dome	b. Protection class acc. to IEC 60529	Remove this Standard it belongs to LED Bulb. Justification-Europen EC Certificate will includes all Standards General Specification for More Bidders	Deleted- b. Protection class acc. to IEC 60529
57	4	SHADOW Less Lamp Double dome	i. Arm system/mains connection component - IP 30	Belongs to Dust and Moisture Protection standard Remove this specific Standard for General specification Justification-Europen EC Certificate will includes all Standards General Specification for More Bidders	Deleted- i. Arm system/mains connection component - IP 30
58	4	SHADOW Less Lamp Double dome	ii. Light head - IP 42	Belongs to Dust and Moisture Protection standard Remove this specific Standard for General specification Justification-Europen EC Certificate will includes all Standards General Specification for More Bidders	Deleted- ii. Light head - IP 42
59	4	SHADOW Less Lamp Double dome	vi. Color temperature - 5000K	<u>Colour Temp should be Between 4000k to 4500k</u> Justification-As Light will have brightest white light with 5000 k which cause eye fatigue ..	Replaced as- vi. Color temperature - 4500K to 5000K

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60	4	SHADOW Less Lamp Double dome	xv. Ambient light mode (Endolight)- 300 Lux	Change to : IT Shd have Ambient Light Mode (Endolight. Remove 300 Lux Justification-General Specification for More Bidders, every company has different Lux.	Replaced as- xv. Ambient light mode (Endolight)- upto 300 Lux
61	4	SHADOW Less Lamp Double dome	vi. Color temperature -5000K	<u>Colour Temp should be Between 4000k to 4500k</u> Justification-as Light will have brightest white light with 5000 k which cause eye fatigue	Replaced as- vi. Color temperature - 4500K to 5000K
62	4	SHADOW Less Lamp Double dome	xv. Ambient light mode (Endolight)-300 Lux	Change to : IT Shd have Ambient Light Mode (Endolight).. Remove 300 Lux Justification- General Specification for More Bidders every Company has different Lux..	Replaced as- xv. Ambient light mode (Endolight)- upto 300 Lux
63	4	SHADOW Less Lamp Double dome	(b) The LED OT Light unit is European CE/US FDA approved.	It should have US FDA approved to ensure highest quality of equipment.	Replaced as- (b) The LED OT Light unit is European CE and US FDA approved.
64	4	SHADOW Less Lamp Double dome	(j) i. Central illumination intensity Ec 100000 lux	Since its is major OT light, so it Should have "Central illumination intensity Ec 160,000 lux", hence it can be use in any kind of surgical procedures including high end surgeries, long surgeries etc.	Replaced as- (j) i. Central illumination intensity Ec 100000 lux or more
65	4	SHADOW Less Lamp Double dome	(j) xiii. Service life LED bulbs in Main Dome and Satellite Dome - approx. 30000 hours or more.	Service life LED bulbs in Main Dome and Satellite Dome - minimum 50000 hours, so that it will be used for longer time as many years. .	No change
66	4	SHADOW Less Lamp Double dome	(k) i. Central illumination intensity Ec- 100000 lux	Since its is major OT light so it Should have "Central illumination intensity Ec 160,000 lux", hence it can be use in any kind of surgical proceduers.	Replaced as- (j) i. Central illumination intensity Ec 100000 lux or more
67	4	SHADOW Less Lamp Double dome	(k) viii. Central irradiance Ee- 430 W/m ² ± 50 W/m ²	It should have Central irradiance Ee- 580 W/m ² ± 50 W/m ² , to ensure high energy in watt per square meter. So that the full recommeded intensity can be achieved.	No change
68	4	SHADOW Less Lamp Double dome	(k) xiv. Service life LED bulbs- 30000 hours or more	Service life LED bulbs in Satellite Dome - minimum 50000 hours, so that it will be used for longer time as many years.	No change
69	4	SHADOW Less Lamp Double dome	Certificates:- European CE/ USFDA	It should have Certificates:- US FDA to ensure highest quality of equipment.	Replaced as- (b) The LED OT Light unit is European CE and US FDA approved.
70	4	SHADOW Less Lamp Double dome	Additional		No change
71	4	SHADOW Less Lamp Double dome		It should have number of LED per light is minimum 60 or more.	No change
72	4	SHADOW Less Lamp Double dome	Light head must be designed with smooth transitions and surfaces, without slots, gaps or exposed screwing to ensure fast and effective cleaning	The Light head must be designed with smooth transitions and surfaces or exposed screwing to ensure fasr and effective cleaning. Each Manufacutrer has there own unique design. It is important that the desgin of light should be laminar flow compatible and even if the feild is partially obstructed the area reamins evenly lit	No change

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73	4	SHADOW Less Lamp Double dome	Ponit 12 (B)Protection class acc. to IEC 60529 i. Arm system/mains connection component - IP 30 14 ii. Light head - IP 42	The light should be under protection class I and with liquid tightness of IPX 0	Deleted- Ponit 12 (B)Protection class acc. to IEC 60529 i. Arm system/mains connection component - IP 30 14 ii. Light head - IP 42
74	4	SHADOW Less Lamp Double dome	20 h. Should have US FDA approved, certificate must to be provided. 2 (b) The LED OT Light unit is European CE/US FDA approved. 65 Certificates:- European CE/ USFDA	Please provide clarity on either European CE or US FDA is required. Point no 20 ask for FDA and point no 2 and Point no 65 ask for one of either	Replaced as- (b) The LED OT Light unit is European CE and US FDA approved.
75	4	SHADOW Less Lamp Double dome	26 iii. Depth of illumination L1+L2 -1300 mm for both Major and Satellite	Please provide a range so that all manufacturer can participate 1200mm to 1300mm	No change
76	4	SHADOW Less Lamp Double dome	29 vi. Color temperature - 5000K - for both Major and Minor	Please provide range 4300- 5000K, the pure white light is between the colour temperature range of 4300- 4800K. The pure white light has advantages that it is consistent and homogenous through out and it colourmetric characteristic do not vary over time and offer wide range of benefits.	Replaced as- vi. Color temperature - 4500K to 5000K
Item no.5- Volumetric Infusion pump					
77	5	Volumetric Infusion pump	Rate of infusion 0.1 -99 ml/hr in1.0 ml/hr increments.:1.0 -999 ml/hr in 1.0 ml/hr increment	Rate of Infusion: 0.1 – 999.9 ml/h; smallest increment that can be entered is 0.1 ml/h (Justification-Ensure Accurate delivery Rate)	Replaced as- Rate of infusion 0.1 – 999.9 ml/h in 1.0 ml/hr increment
78	5	Volumetric Infusion pump	Power of AC 220V/50Hz with a battery backup of 2 hours operation.	Rated voltage: 220V - 240V, 50/60 Hz, Battery operating/recharge time: >3.0 h at max. (Justification-voltage/Frequency has to be in Range)	No change
79	5	Volumetric Infusion pump	Rate of infusion 0.1 -99 ml/hr in1.0 ml/hr increments. :1.0 -999 ml/hr in 1.0 ml/hr increment	Flow Rate Range Should be from 0.1ml/Hr to 1500ml/Hr.. With increment of 0.1ml/hr Justification-For Batter Clarity of Specs..	Replaced as- Rate of infusion 0.1 – 999.9 ml/h in 1.0 ml/hr increment
80	5	Volumetric Infusion pump	Rate of infusion 0.1-99ml/hr increments.: 1.0 -999ml/hr in 1.0 ml/hr increment	It should be used for large volume so 1.0 ml/hr-999ml/hr is enough.There is no requirement to change this as 1500ml/hr as discussed in prebid meeting as this will become company specific which will be not fair for competition.	Replaced as- Rate of infusion 0.1 – 999.9 ml/h in 1.0 ml/hr increment
81	5	Volumetric Infusion pump		Machine design should be horizontal inspite of Vertical.It should be designed horizontally so that it will take less space on pole and more pumps can be placed on a single pole	No change
82	5	Volumetric Infusion pump		It should meet safety Certificates EN60601.It should meet safety Certificates EN60601 for a good quality products	No change

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83	5	Volumetric Infusion pump	Rate of infusion 0.1 -99 ml/hr in 1.0 ml/hr increments. :1.0 -999 ml/hr in 1.0 ml/hr increment	Recommendation : Rate of infusion 1 -99 ml/hr in 1.0 ml/hr increments. :1.0 -999 ml/hr in 1.0 ml/hr increment Justification : If any infusion less than 1ml has to be given then use of syringe pump is clinically advisable as the accuracy is higher in syringe pump for low volume infusion when compare to volumetric pumps. In volumetric pumps flow rate accuracy is +5% wherein syringe pump gives the accuracy of +1%. Hence use if Syringe pump is recommended for less than 1 ml/hr infusion	Replaced as- Rate of infusion 0.1 – 999.9 ml/h in 1.0 ml/hr increment
84	5	Volumetric Infusion pump	Rate of infusion 0.1 -99 ml/hr in 1.0 ml/hr increments.:1.0 -999 ml/hr in 1.0 ml/hr increment	Rate of Infusion: 0.1 – 999.9 ml/h; smallest increment that can be entered is 0.1 ml/h (Justification-Ensure Accurate delivery Rate)	Replaced as- Rate of infusion 0.1 – 999.9 ml/h in 1.0 ml/hr increment
85	5	Volumetric Infusion pump	Power of AC 220V/50Hz with a battery backup of 2 hours operation.	Rated voltage: 220V - 240V, 50/60 Hz, Battery operating/recharge time: >3.0 h at max. (Justification-voltage/Frequency has to be in Range)	No change
86	5	Volumetric Infusion pump	8. Calibrate automatically with any type of infusion set	Instead of Automatic calibration, We are recommending you to ask for pre-calibrated or factory calibrated infusion pump with all types of infusion sets available in India. This will reduce the hassles of calibrating infusion sets either manually or automatically each time a new type of infusion set is used.	No change
87	5	Volumetric Infusion pump	10. Power of AC 220V/50Hz with a battery backup of 2 hours operation.	Volumetric Infusion pumps should have battery backup of atleast 4 hours with 5 ml/hr flowrate.	No change
Item no.6- CTG Machine					
88	6	CTG Machine	· 7" wide TFT- color LCD screen for Fetal Heart Rate, Uterine contraction & fetal movement.	8-9 " Colour touchscreen ,high resolution display , also can be used with Gloves on.- Because its more user friendly and can be operated better.	Replaced as- 7" wide or more TFT- color LCD screen for Fetal Heart Rate, Uterine contraction & fetal movement.
89	6	CTG Machine	· Instrument should have LCD Screen.		No change
90	6	CTG Machine	· It should have display modes of Trend mode, Number mode & Graph mode.	Should offer accurate & clear visual status of the fetus and mother via numeric and graphical representation. and Easy to use and intuitive via the icon driven touchscreen, the fetal heart rate can be displayed as “Big numbers” which auto scale for single, twins or triplet monitoring for optimum visibility. This will help in all kind of display and futher will add twin and triplet capability.	No change
91	6	CTG Machine	· It should have alarm functions in all movement.	It Should have Maternal Alarms & Alerts for High heart rate, Low heart rate, Dual rate detection, Poor ECG connection (high impedance), High and low systolic pressure, High and low diastolic pressure, High and low heart rate, Low saturation	No change

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92	6	CTG Machine	· It should have facility to increase / decrease / mute alarm sounds It should have Automatic track & hold facility.		No change
93	6	CTG Machine	· It should have high sensitivity less than 1 MHz FHR upper limit should be 130 - 240 BPM & lower limit should be 30 -150 BPM.	It Should have Pulsed directional Doppler system which operates at 1.0MHz. or less and must have multi-crystal design to optimised for wide angle even coverage. Accurate heart beat detection and rate calculation is provided by advanced auto-correlation algorithms. Range: 30 - 240 bpm. Accuracy: < +/- 1bpm. This will help in broder coverage angle and accurate heart beat detection.	No change
94	6	CTG Machine	· It should have Foetal Heart Rate & Uterine pressure.	Should display Maternal Vital Signs like maternal heart rate, NiBP1 & SpO2 and have Multi-Functional display should be easy to toggle between “BIG Numbers” and FHR trace display modes. As vitals for both fetus nad mother are needed.	No change
95	6	CTG Machine	· It should have automatic and manual foetal movement detection.	Fetal Movement recorded with either the maternally sensed event marker, or automatically using Actogram. By this machine will be compatable for all movement detection.	No change
96	6	CTG Machine	· It should have in built thermal recorder.		No change
97	6	CTG Machine	· It should have battery backup.		No change
98	6	CTG Machine	· It should have a built-in memory for atleast 48 hrs to save patient graph data.	Should have internal storage in excess of 6000 hours of patient records and 100 hours of paper out memory. This will facilitate the record keeping more accurately and will help in high risk patietn data mangement.	No change
99	6	CTG Machine	· It should have Single Foetal Monitoring system FHR & UC probes should have a slot guided connecting mechanism to the main unit		No change
100	6	CTG Machine	· It should have print speed of 1, 2, 3 cm/min.	Print speed need to be user selectable. For Better user interphase.	No change
101	6	CTG Machine	· It should have automatic paper feeding function.		No change
102	6	CTG Machine	· Should have safety certificate from a competent authority European CE or FDA (US) approved product.		No change

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103	6	CTG Machine	· Complies with Medical Device Directive 93/42/EEC, class risk IIa or equivalent. Manufacturer's quality management system complies with ISO 13485.		No change
104	6	CTG Machine	· Demonstration/Comprehensive Training for All Staff of user department and support services till familiarity with the system is required.		No change
105	6	CTG Machine	Warranty- 3 years		No change
106	6	CTG Machine	CMC- 5 years after warranty		No change
107	6	CTG Machine		Please add Should be supplied with 1 Nos. US1 transducer, 1 No. Toco, 1 No. Patient event marker, power cord & 10 packets of plain Z fold thermal paper . This is the Assessories need to perform the diganocis.	Added- Should be supplied with 10 rolls of plain Z fold thermal paper. Bidders are requested to quote the rates of 5000 rolls of plain Z fold thermal paper in revised price sheet and this price shall be added to the quoted equipment price for price comparison .The price of consumable shall be fixed for three years from the date of contract agreement .
108	6	CTG Machine	7" wide TFT- color LCD screen for Fetal Heart Rate, Uterine contraction & fetal movement	display should be 12 inch for better visibility	Replaced as- 7" wide or more TFT- color LCD screen for Fetal Heart Rate, Uterine contraction & fetal movement.
Item no.7- Resuscitation Kit- 250 ml					
109	7	Resuscitation Kit- 250 ml	Resuscitator to ventilate preterm, term small infant (body weight 0-7kg) Resuscitator by operated by hand, ventilation with ambient air/ o2, Resuscitator shall be easy to dissemble and resemble, to clean and disinfect, and should be autoclavable. all part must be manufactured from high - strength, long life material and require no special maintenance or storage condition. Resuscitator shall be supplied as a complete set with:	1. Per Generic name of item Resauscitation KIT , it should comprise of many other items like laryngeal mask , Hand suction pump , Collar etc . The specification only have asked for AMBU (resuscitaor Bag) Our Request:- Kit itself is a broader term and should atleast consist basic rescue devices , we have attached two tenders from Chatisgarh government and Orissa government where similar KIT tender has been floated with other items.	Replaced as- Item name- Self Inflatable Bag and Mask- 250 ml
Item no.8- Resuscitation Kit- 500 ml					
110	8	Resuscitation Kit- 500 ml	Resuscitator to ventilate preterm, term small infant (body weight 0-7kg) Resuscitator by operated by hand, ventilation with ambient air/ o2, Resuscitator shall be easy to dissemble and resemble, to clean and disinfect, and should be autoclavable. all part must be manufactured from high - strength, long life material and require no special maintenance or storage condition. Resuscitator shall be supplied as a complete set with:	1. Per Generic name of item Resauscitation KIT , it should comprise of many other items like laryngeal mask , Hand suction pump , Collar etc . The specification only have asked for AMBU (resuscitaor Bag) Our Request:- Kit itself is a broader term and should atleast consist basic rescue devices , we have attached two tenders from Chatisgarh government and Orissa government where similar KIT tender has been floated with other items.	Replaced as- Item name- Self Inflatable Bag and Mask- 500 ml

S.No.	Item No.	Item name	Specification in the Floated Tender	Recommendation from bidder with Justifiacion	Amendements
Item no.9- Resuscitation Kit- 750 ml					
111	9	Resuscitation Kit- 750 ml	Resuscitator to ventilate preterm, term small infant (body weight 0-7kg) Resuscitator by operated by hand, ventilation with ambient air/ o2, Resuscitator shall be easy to dissemble and resemble, to clean and disinfect, and should be autoclavable. all part must be manufactured from high - strength, long life material and require no special maintenance or storage condition. Resuscitator shall be supplied as a complete set with:	Per Generic name of item Resauscitation KIT , it should comprise of many other items like laryngeal mask , Hand suction pump , Collar etc . The specification only have asked for AMBU (resuscitaor Bag) Our Request:- Kit itself is a broader term and should atleast consist basic rescue devices , we have attached two tenders from Chatisgarh government and Orissa government where similar KIT tender has been floated with other items.	Replaced as- Item name- Self Inflatable Bag and Mask- 750 ml
Item no.10- Resuscitation Kit- 1000 ml					
112	10	Resuscitation Kit- 1000 ml	Resuscitator to ventilate preterm, term small infant (body weight 0-7kg) Resuscitator by operated by hand, ventilation with ambient air/ o2, Resuscitator shall be easy to dissemble and resemble, to clean and disinfect, and should be autoclavable. all part must be manufactured from high - strength, long life material and require no special maintenance or storage condition. Resuscitator shall be supplied as a complete set with:	Per Generic name of item Resauscitation KIT , it should comprise of many other items like laryngeal mask , Hand suction pump , Collar etc . The specification only have asked for AMBU (resuscitaor Bag) Our Request:- Kit itself is a broader term and should atleast consist basic rescue devices , we have attached two tenders from Chatisgarh government and Orissa government where similar KIT tender has been floated with other items.	Replaced as- Item name- Self Inflatable Bag and Mask- 1000 ml
Item no.12- Stethoscope					
113	12	Stethoscope	Point No 8 Certifications: ISI/CE/FDA	This item does not have ISI mark, Please added ISO 13485 certification for medical item	No change
Item no.13- BP instrument Dial type					
114	13	BP instrument Dial type	Should be ISI mark	The diameter size 160mm, This a specific size in ISI mark, only one reputeded company catching the 80% Market (ISI) in this size, So Please change the same. OR Change the certifications like ISI / ISO 13485	No change

S.No.	Item No.	Item name	Specification in the Floated Tender	Recommendation from bidder with Justifiacion	Amendements
Item no.14- X-Ray view box					
115	14	X-Ray view box	1. It should have a thickness of 29 mm	it should have a thickness upto 25 mm (Justification- it will slim and tidy product)	Replaced as- 1. It should have a thickness of 25 mm to 30 mm
116	14	X-Ray view box	It should have an on-off switch along with digital feather touch dimmer and a button to set the intensity	It should have an on-off switch along with digital feather touch dimmer (Justification- buttons will comes in manual operated product and cost is also high)	No change
117	14	X-Ray view box	11. It should have external fuses for protection against power surge.	not required(justification - integrated circuit is it self capable of bearing fluctuation)	No change
118	14	X-Ray view box	14. Facility to switch on only the section where the film needs to be viewed.	not required (justification - only one manufacturer manufactured this product and it also very costly)	No change
119	14	X-Ray view box	Warranty- 1 year	Warranty- 3year (justification - it has to be that much for proper working and maintainance)	No change
120	14	X-Ray view box	It should have a thickness of 29 mm	"it should have a thickness of 25 MM", :- it will be slim , light in weight and will be easy to handle.	Replaced as- 1. It should have a thickness of 25 mm to 30 mm
121	14	X-Ray view box	It should have an on-off switch along with digital feather touch dimmer and a button to set the intensity	"It should have an on-off switch along with digital feather touch dimmer" we don't have to ask for "Button to set the Intensity" two different type of switches for single operation why to add cost when we are asking feather touch dimmer, no need for manual dimmer.	No change
122	14	X-Ray view box	It should have external fuses for protection against power surge.	Not required or to be deleted, all the equipments are now a days are integrated with circuit capable of bearing power surge	No change
123	14	X-Ray view box	Facility to switch on only the section where the film needs to be viewed.	Not required or to be deleted, it's a double section their will be too much of switches for this operation on the front panel (normally required in quad section). It will increase the cost unnecessarily and no company provides this in double section.	No change
124	14	X-Ray view box	Warranty- 1 year	Warranty- 3year (justification - it has to be that much for proper working and maintainance)	No change
Commercial Terms & Conditions					
125	clause 5. page no. 29	SECTION-IV GENERAL CONDITIONS OF CONTRACT (GCC)	Within seven (7) days from date of the issue of intimation letter/ notification of award by the Tender Inviting Authority/Ordering Authority, the supplier, shall furnish performance security to the Tender Inviting Authority for an amount equal to ten percent (10%) of the contract value,valid for a period up to forty two months from the date of award of RC/agreement	Duration of Submission of NOA Documents along with Performance security need to be 45 days instead of 7 days as there are many issues which may be occurred within 7 days like bank holiday, Original Hard copy receiving,etc	No change
126	clause 5. page no. 29	SECTION-IV GENERAL CONDITIONS OF CONTRACT (GCC)	Within seven (7) days from date of the issue of intimation letter/ notification of award by the Tender Inviting Authority/Ordering Authority, the supplier, shall furnish performance security to the Tender Inviting Authority for an amount equal to ten percent (10%) of the contract value,valid for a period up to forty two months from the date of award of RC/agreement	Duration of Submission of NOA Documents along with Performance security need to be 45 days instead of 7 days as there are many issues which may be occurred within 7 days like bank holiday, Original Hard copy receiving,etc	No change