Amendment: Technical Specification for Advance Workstation with Cardiac Monitor and Charting system:-

| Poin | Technical Specification | Amended Technical | Justification / | |
|------|---------------------------------------|-----------------------------------|--|----------------------|
| Sl. | as per NIT Document : | Specification | Benefits | Remarks |
| No.: | | as Requested : | / Remarks : | |
| | Heading ~ A. Anesthesia W | orkstation : | | |
| 10. | Should have electronically | " "Should have | Being "electrically | Not amended as |
| | controlled and | electronically controlled | driven, should not | multiple OEMs are |
| | electricallydriven | and electrically / | require driving | available |
| | anaesthesia ventilator, | pneumatically driven | gas"portion is of a | |
| | should not require driving | anaesthesia ventilator". | specific company / | |
| | gas. | anaestnesia ventnatoi . | brand and restricts | |
| 1.6 | | | competition. | |
| 16. | Anaesthesia ventilator shou | ld have the following settings | | |
| | : | | | |
| j. | Tidal volume adjustment | " "Tidal volume adjustment | PCV is frequently | Amended to :- |
| | range 10 ml (in VCV) to | range 10 ml (in VCV) to | used for neonatal | Tidal volume |
| | 1500 ml and upgradeable to | 1500 ml and 5 ml in <u>PCV</u> ". | patients, where precise | adjustment range 10 |
| | 5 ml in VCV . | | low tidal volumes (as | ml (in VCV) to 1500 |
| | | | low as 5 mL) are | ml |
| | | | critical to avoid | |
| | | | volutrauma and | |
| | A L' . I I PETT | | ensure patient safety. | |
| k. | Adjustable PEEP: Off, 2-to | " "Adjustable PEEP: Off, 3 | For wider | Amended to:- |
| | 35 hPa (or cmH2O); and | to 30 cmH2O; and CPAP: | participation. | Adjustable PEEP – |
| | CPAP: 0 , 2 to 35 mbar . | 3 to 60 cmH2O". | | Off, (3 to 30 |
| | | | | hPa/cmH2O |
| | | | rain di per | And CPAP (0, 2 |
| | | | The second of th | TO 35 mbar |
| | | esta pigo 4.7 m. Tarri 1 (48) 2 | | /cmH2O |
| m. | I:E: max 1:50 to 50:1. | "!:E: <u>4:1 to 1:8</u> ". | For wider | Amended to |
| | * | | participation. | I:E = 4:1 to 1:8 |
| n. | Should be able to ventilate | "Kindly delete / remove | Being the | Amendment |
| | with atmospheric air, in case | this point completely from | "ventilating with | accepted. This point |
| | of total fresh gas failure | the existing prescribed | atmospheric air"a | may be removed |
| | including oxygen. | Technical Specifications". | company-specific | |
| | | | point/ feature. | |

| | | Amended Technical | Justification / | Remarks |
|-----------------|---|-----------------------------|--------------------------|---------------------|
| Point | Technical Specification | Specification | Benefits | |
| Sl. | as per NIT Document : | as Requested : | / Remarks : | |
| No.: 20. | Should have dual | "Should have dual flow | Specifying "hotwire | Amendment |
| 20. | flow(hotwire anemometry) | sensing technology with | anemometry" makes | accepted |
| | sensing technology with | flow sensor at inspiratory | the point | |
| | flow sensor at inspiratory and expiratory side. | and expiratory side". | companyspecific. | |
| 36. | Should be possible to deliver | "Should be possible to | Being "electrically | Amendment |
| 50. | oxygen and anesthetic agents | deliver oxygen and | driven, should not | accepted |
| | in manual/spontaneous mode | anesthetic agents in | require driving gas" | |
| | even when the machine is in | manual/spontaneous mode | portion is of a | |
| | switched off mode as an | even when the machine is in | specific company / | |
| | emergency back-up. | switched off/ power failure | brand and restricts | |
| | amongonis y successive super | mode as an emergency | competition. | |
| | | back-up". | | |
| | Heading ~ Patient Monitor | : | | |
| 08. | Monitor access should be | | For wider | Not amended |
| 00. | with touch screen, rotary | with touch screen, rotary | participation. | As both rotary knob |
| | | knob / fast access key for | ļ , | and fast access key |
| | knob and fast access key for | quick function". | | are required to |
| | quick function. | • | | enhance clinical |
| | | | , | |
| | | | | responsiveness |
| 11. | 96-hours of full disclosure. | " "48 hours of full | For wider | Amendment |
| | | disclosure". | participation. | accepted |
| 16. | Should have min of 300 | • "Should have min of 120 | For wider | Amendment |
| | mins of battery backup as | mins of battery backup as | participation. | accepted |
| 1 | standard in every monitor. | standard in every monitor". | | |
| 22. | Should be European CE | - "Should be European CE | For wider | Amendment |
| | complying to European | Townson | participation. | accepted |
| | Directive 93/42/EEC for | Dimentino 03/42/FFC for | 1 . | |
| 1 -4 1 | | both Monitor and software | | |
| - " | both Monitor and software to | to control physiologic | Company Company | |
| | control physiologic | monitoring systems / BIS | t partie despire de data | |
| | monitoring systems. | approved". | | |
| | Administration | | | |

| 26 | And: 1-6 1 1 6 111 | | representation of majority and analysis of the contract of the | والمناف والمعاري المعاري المعارض والمرافع والمعارض المعارض والمعارض والمعارض والمعارض والمعارض والمعارض والمعارض |
|-----|------------------------------|-------------------------------------|--|--|
| 26. | | "Please discard / erase the | | Amendment |
| | be possible for better | entire point from the given | is of a specific | accepted |
| | hospital asset management. | proposed Technical | company / brand. | |
| | | Specifications". | 0 1 | |
| | | | | |
| | | | 1 <u>1 12 13 13 13 13 13 13 13 13 13 13 13 13 13 </u> | |
| | Heading ~ D. Scope of Supp | ly: | | and the same and t |
| 01. | Anesthesia workstation with | "Anesthesia workstation | For wider | Not amended |
| | integrated ventilator, | with integrated ventilator, | participation. | As end tidal control |
| | integrated anaesthesia gas | integrated anaesthesia gas | 1 - | / target control |
| | analyzer and monitorwith | analyzer and monitor". | , | anaesthesia will |
| | end_tidal_control_/_target | | - 1 41 - 1 | enhance precision |
| | control anesthesia. | | | and safety in |
| | | | | delivery of |
| | | | | Anaesthesia |
| 16. | Extra flow sensors – 10 Nos. | "Clarity required | - | Extra flow sensor |
| | | regarding this point". | · | are needed to ensure |
| | | | | optimized |
| | | | | functioning and |
| | | | | short down |
| | | | | time/non- |
| | | | | operational time of |
| | | | | workstation |
| 17. | Anaesthesia monitor, 17— | ■ "Anaesthesia monitor, <u>15 –</u> | For better visibility. | Not amended |
| | inch color touch-screen with | inches color touch-screen | · · | As wider 17 inch |
| | 8 waveforms . | with 10 waveforms". | | screen has better |
| | o marenerma. | 20 11110202 | | visibility |
| 26. | NMT cable and NMT adult | "'NMT cable and NMT | As | Not amended |
| 20. | mechanic sensor. | adult mechanic/ | acceleromyography | As mechanic sensor |
| | meename senser. | acceleromyography | is the most accurate | is more accurate |
| | | sensor". | and reliable method | method of NMT |
| | | SCHSOI . | of NMT | measurement |
| | | | measurement. | measurement |
| 22 | Main stream or side stream | ■ "Clavity required as | mousurement. | The ETCO2 |
| 33. | | "Clarity required, as | - | module, sensor |
| | ETCO2 module – 1 No. with | requirement of Anesthesia | | |
| | sensor cable and adopter – 1 | Gas Monitoring is already | | cable and adaptor |
| | No. | mentioned in the prescribed | | has to be supplied |

| | | | | * |
|-----|---------------------------------|----------------------------------|---|--|
| | | specifications". | | processor and the state of anticons of the state of the s |
| 34. | Flow sensor :-5 Nos. | " "Clarity required | r Marting and they community in the health (in his health of the contribution of an in a contribution of a sing 20 | This point may be |
| | r afer_ | regarding this point". | | removed |
| - | I | leading ~ D. Standards, Safety a | and Training: | American proprieta de imperio especiales (ambello qui a francia dello de a time francia dello mente dello ment |
| 01. | Should be US- | " "Should be US- | For wider | Amendment |
| | FDA/European CE approved | FDA/European CE <u>/ BIS</u> | participation. | accepted |
| | product. | approved product". | | |
| | | | | |
| | | | | |
| 03. | Electrical safety conforms to | "Electrical safety conforms | For wider | Amendment |
| | standards for electrical safety | to standards for electrical | participation. | accepted |
| | IEC 60601-1(Or equivalent | safety IEC 60601-1 (Or | 1 100 | |
| | International / National | equivalent International / | | |
| | standard) general | National standard) general | | , |
| | requirement for electrical | requirement for electrical | | |
| | safety of medical equipment. | safety of medical equipment | | 43 |
| | | or equivalent to BIS". | | |
| | | | | |