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### **Corrigendum-II**

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for Procurement, Rate contract, Supply, Installation of Medical Equipment vide Re-Tender No.-BMSICL/2026-27/ME-500. During and after Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts. On the basis of their recommendations certain amendments in the technical specification of the equipment have been made which are annexed as **Annexure-I** of this corrigendum.

Sd/-  
**GM (Procurement)**

| <b>Annexure-I</b>                        |                                                                                                                                         |                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Name of Equipment:- C-Arm Machine</b> |                                                                                                                                         |                                                                                       |
| <b>Sl. No</b>                            | <b>Technical Specification as per tender</b>                                                                                            | <b>Final Amendment</b>                                                                |
| 1                                        | Specification of High Frequency Mobile C-ARM with Flat Panel Detector                                                                   | No Change                                                                             |
| 2                                        | The system should have the below mentioned specifications                                                                               | No Change                                                                             |
| 3                                        | Flat Panel Detector                                                                                                                     | No Change                                                                             |
|                                          | Flat Panel Detector - Receptor Type: Amorphous Silicon technology<br>Conversion Screen: CsI FPD with 20cm x 20cm or higher              | No Change                                                                             |
|                                          | Image Matrix 1K x 1K Pixel pitch 210 µm or less ADC conversion 14 bit or better                                                         | Image Matrix 1.5 K x 1.5 K Pixel pitch 110 µm or less ADC conversion 14 bit or better |
| 4.                                       | <b>C-ARM STAND:</b>                                                                                                                     | No Change                                                                             |
|                                          | a) It should be ruggedly built and should be of good design                                                                             | No Change                                                                             |
|                                          | b) It should have 01 (one) or more separate steering for controlling back and front wheel movements                                     | No Change                                                                             |
|                                          | c) It should also have the below mentioned movements                                                                                    | No Change                                                                             |
|                                          | Horizontal travel should be minimum 210 mm                                                                                              | No Change                                                                             |
|                                          | Orbital movement should be 115°                                                                                                         | No Change                                                                             |
|                                          | Panning movement should be ± 12.5°                                                                                                      | No Change                                                                             |
|                                          | Focus to FPD distance should be 900 mm                                                                                                  | No Change                                                                             |
|                                          | Vertical movement should motorized of 400 mm                                                                                            | No Change                                                                             |
|                                          | Focus to FPD Clearance should be 730 mm                                                                                                 | No Change                                                                             |
|                                          | C-Arm rotation should be ±180° (Preferably ±360°)                                                                                       | No Change                                                                             |
|                                          | <b>MONITORS:</b>                                                                                                                        | No Change                                                                             |
|                                          | a. Monitor should be used with high resolution (1kx1k), used for medical grade images, at least 17" or more size                        | No Change                                                                             |
|                                          | b. The monitor trolley should be provided for mounting 2 monitors and should have 2 shelf for keeping memory and stabilizer.            | No Change                                                                             |
| 5.                                       | <b>GENERATOR:</b>                                                                                                                       | No Change                                                                             |
|                                          | a) It should be microprocessor controlled digital system with display.                                                                  | No Change                                                                             |
|                                          | b) Frequency of 40 KHZ or more                                                                                                          | No Change                                                                             |
|                                          | c) The fluoroscopic mA should be from 0.3 to 3.0 mA or wider.                                                                           | No Change                                                                             |
|                                          | d) The system should have fluoroscopy mode like                                                                                         | No Change                                                                             |
|                                          | (i) Manual fluoro mode                                                                                                                  | No Change                                                                             |
|                                          | (ii) The pulse/frame rate instead of pulse time 1 sec to 10 sec.                                                                        | The pulse/frame rate 1 sec to 10 sec.                                                 |
|                                          | (iii) Auto Dose Rate Control in fluoroscopy mode by which either mA & KV should be set automatically as per the thickness of the organ. | No Change                                                                             |
|                                          | (iv) Manual KV selection during fluoroscopy also should be available.                                                                   | No Change                                                                             |
|                                          | (v) Boost fluoroscopy mode (optional) / High Definition Fluoroscopy                                                                     | No Change                                                                             |
|                                          | e) The digital fluoroscopic timer should be incorporated with arrangement of auto cut off of exposure after 300 secs.                   | No Change                                                                             |

|                                                 |                                                                                                                                                                                                                                                                                    |                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|                                                 | f) The radiographic mAs range should be from 01 to 25 mAs or more                                                                                                                                                                                                                  | No Change                            |
|                                                 | g) The X-ray tube should be dual focus stationary anode. The focal spot of the tube should be 1.5mm x 0.6mm and 1.5mm x 0.6 mm. It should have mono block / tube housing heat storage capacity of 200 KHU or more. It should also have inherent filtration of 0.7mm or more Al eq. | No Change                            |
|                                                 | h) The system should have backlit LCD display of fluoro mA, KV, timer & radiography mAs should be provided.                                                                                                                                                                        | No Change                            |
|                                                 | i) The reversal, image rotation, functions should be opera table either from control panel or with a remote control.                                                                                                                                                               | No Change                            |
|                                                 | j) Memory function like save/ recall should be operated from memory panel & with wireless remote                                                                                                                                                                                   | No Change                            |
|                                                 | k) There should be independent selection of mA and KV & mAs.                                                                                                                                                                                                                       | No Change                            |
|                                                 | l) The control should have indicator for power, Overload, X-Ray & Tube heating                                                                                                                                                                                                     | No Change                            |
|                                                 | m) The system should be upgradable to latest functions                                                                                                                                                                                                                             | No Change                            |
| 6.                                              | <b>IMAGE MEMORY:</b>                                                                                                                                                                                                                                                               | No Change                            |
|                                                 | a) The unit should be capable of digital subtraction angiography (DSA) with Road map facility                                                                                                                                                                                      | No Change                            |
|                                                 | b) The systems should have more than 50000 image storage capacity permanently.                                                                                                                                                                                                     | No Change                            |
|                                                 | b) It should have image integration function to reduce the image noise.                                                                                                                                                                                                            | No Change                            |
|                                                 | c) Should be capable of copying images to Pen Drive through in-built USB port.                                                                                                                                                                                                     | No Change                            |
| 7.                                              | <b>ESSENTIAL ACCESSORIES:</b>                                                                                                                                                                                                                                                      | No Change                            |
|                                                 | a) Lead aprons, Thyroid Shield, Lead Goggles (12 nos. each)                                                                                                                                                                                                                        | No Change                            |
|                                                 | b) Servo stabilizer /Inbuilt voltage control (compatible with the whole unit for the voltage range of 150 Volt-260 Volt)                                                                                                                                                           | No Change                            |
|                                                 | <b>Certification:-</b> (i) should have US FDA / CE (Issued by notified body)/BIS approved                                                                                                                                                                                          | No Change                            |
|                                                 | (ii) Should have CDSCO certification (iii) Should be AERB approved.                                                                                                                                                                                                                | No Change                            |
| <b>Name of Equipment:- 300 mA X-Ray Machine</b> |                                                                                                                                                                                                                                                                                    |                                      |
| <b>SI. No</b>                                   | <b>Technical Specification as per tender</b>                                                                                                                                                                                                                                       | <b>Final Amendment</b>               |
| <b>1</b>                                        | <b>X-Ray Generator:</b>                                                                                                                                                                                                                                                            | No Change                            |
|                                                 | A. It should have Microprocessor controlled High Frequency X-Ray Solid State Generator.                                                                                                                                                                                            | No Change                            |
|                                                 | B. Inverter frequency – 20 KHz or more                                                                                                                                                                                                                                             | No Change                            |
|                                                 | C. Generator Output power 30KW or more & Over Load Protection.                                                                                                                                                                                                                     | No Change                            |
|                                                 | D. KV Range – 40 to 125KVp                                                                                                                                                                                                                                                         | No Change                            |
|                                                 | E. mA range- up to 300 mA or more                                                                                                                                                                                                                                                  | No Change                            |
|                                                 | F. 300mA @ 80 KV or better                                                                                                                                                                                                                                                         | No Change                            |
|                                                 | G. mAs range – 2 to 200 mAs or more                                                                                                                                                                                                                                                | No Change                            |
| <b>2</b>                                        | <b>X-Ray tube</b>                                                                                                                                                                                                                                                                  | No Change                            |
|                                                 | A. Rotating anode & Anode heat capacity should be 300KHU or more                                                                                                                                                                                                                   | Rotating anode & Anode heat capacity |

|          |                                                                                                                                                                                                                                              |                                                                 |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|          |                                                                                                                                                                                                                                              | should be 140 KHU or more                                       |
|          | B. Focal spot :- small - 1.2 x 1.2 mm & Large - 2 x 2 mm                                                                                                                                                                                     | No Change                                                       |
|          | C. One pair of High-tension cable (at least 8 meters)                                                                                                                                                                                        | No Change                                                       |
|          | D. Should have Double slot collimator for full field illumination (LED) and adjustment of exposure area with Auto cut-off provision.                                                                                                         | No Change                                                       |
| <b>3</b> | <b>Table</b>                                                                                                                                                                                                                                 | No Change                                                       |
|          | A) Should have 4-Way Floating Table Top with waterproof, stain free & low radiation absorption paper phenolic white laminated radiolucent material of carbon fibre/Equivalent Material                                                       | No Change                                                       |
|          | B) Should have Electromagnetic Locks controlled through foot switch for table top movement.                                                                                                                                                  | No Change                                                       |
|          | C) Should have Table Top dimension of 220cm x 80cm or more                                                                                                                                                                                   | No Change                                                       |
|          | D) Should have Longitudinal movement of +300mm or more                                                                                                                                                                                       | No Change                                                       |
|          | E) Should have Transverse movement of +125mm or more                                                                                                                                                                                         | No Change                                                       |
|          | f) Should have motorized reciprocating oscillating bucky with integrated high density Anti Scatter Grid* with grid ratio of 10:1, grid density of 103 Lines/inch, grid size 17 1/4" X 18 7/8" , accommodate cassette size 8"x10" to 14"x17". | No Change                                                       |
|          | g) Bucky should Travel entire length of the table and locked at desired position by Electromagnetic lock.                                                                                                                                    | No Change                                                       |
|          | h) Should have accessories like Stainless Steel cassette tray and Compression band with the table Should have Patient Weight carrying capacity of 200Kg or more                                                                              | No Change                                                       |
|          | <b>VERTICAL BUCKY STAND:</b>                                                                                                                                                                                                                 | No Change                                                       |
|          | a) Should be Floor Mounted Vertical bucky stand with vertical travel upto 1000mm or more equipped with stainless steel cassette tray.                                                                                                        | No Change                                                       |
|          | b) Should have Electromagnetic locking system operated through cassette tray Hand Grips.                                                                                                                                                     | No Change                                                       |
|          | c) Should have Oscillating Bucky with integrated high density Anti Scatter Grid* with grid ratio of 10:1, grid density of 103 Lines/inch focus at 115 cm.                                                                                    | No Change                                                       |
|          | d) Bucky should accommodate cassette size 8"x10" to 14"x17"                                                                                                                                                                                  | No Change                                                       |
|          | e) It should be counterweight balanced.                                                                                                                                                                                                      | No Change                                                       |
|          | f) Material used in vertical Bucky column stand should be made of corrosion free material like Aluminium, Titanium, super alloy etc.                                                                                                         | No Change                                                       |
|          | g) Should have provision of doing chest radiography without grid.                                                                                                                                                                            | No Change                                                       |
|          | <b>X-Ray Ceiling column/ Floor to ceiling free</b>                                                                                                                                                                                           | No Change                                                       |
|          | Travel range: 195 cm ( $\pm 10\%$ ); movement arrested with electromagnetic brakes                                                                                                                                                           | No Change                                                       |
|          | Vertical travel: 135 cm ( $\pm 10\%$ ); movement arrested with electromagnetic brakes                                                                                                                                                        | No Change                                                       |
|          | Column rotation: 360°; from + 180° to -180° in 90° increments                                                                                                                                                                                | Column rotation: 180°; from + 90° to -90° in 90° increments     |
|          | D. X-ray tube rotation: $\pm 180^\circ$ ; locks at 0° / +90° / -90°                                                                                                                                                                          | X-ray tube rotation: $\pm 90^\circ$ ; locks at 0° / +90° / -90° |

|  |                                                                                                                                                                                                                                                   |                                                                                                  |
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|  | <b>CONTROL PANEL:</b>                                                                                                                                                                                                                             | No Change                                                                                        |
|  | a) It should have micro controller based Large touch/ Soft Feather touch LCD display control Panel with user friendly User Interface                                                                                                              | No Change                                                                                        |
|  | b) Control panel should be floor mount type.                                                                                                                                                                                                      | No Change                                                                                        |
|  | c) Should have 7" or more Touch Screen LCD/LED display for KV, mA, ms, mAs, APR Program, error display                                                                                                                                            | No Change                                                                                        |
|  | d) Should have provision of 2 Point Technique and 3 Point Technique for exposure and should have radiography control for kV, mA, ms and mAs.                                                                                                      | Should have provision of 2-Point Technique with KV and mAs & 3-Point Technique KV, mA and time . |
|  | e) Should have Touch Screen / Soft feather touch panel LCD display of APR parameter and selection of 200 or more APR of Anatomy, which helps the user to select exposure parameters based on body part, examination view and size of the subject. | No Change                                                                                        |
|  | f) Should have dual action hand switch with retractable cord.                                                                                                                                                                                     | No Change                                                                                        |
|  | <b>STANDARD ACCESSORIES</b>                                                                                                                                                                                                                       | No Change                                                                                        |
|  | A. Three-fold X-ray protection barrier – 1no.                                                                                                                                                                                                     | No Change                                                                                        |
|  | B. Lead apron 0.35mm lead equivalence with thyroid guard – 2 no.                                                                                                                                                                                  | No Change                                                                                        |
|  | C. Should be supplied with chest stand and cone for skull x-rays. Footstep (2 step) for the table- 1no.                                                                                                                                           | Should be supplied with Footstep (2 step) for the table- 1no.                                    |
|  | d. SPECIFICATION FOR THREE-FOLD LEAD PROTECTIVE BARRIER. Qty 1                                                                                                                                                                                    | No Change                                                                                        |
|  | Should be a threefold mobile lead protective barrier.                                                                                                                                                                                             | No Change                                                                                        |
|  | Should be a mounted on heavy duty casters.                                                                                                                                                                                                        | No Change                                                                                        |
|  | Should have a viewing window of 1.5 mm thick lead equivalence.                                                                                                                                                                                    | No Change                                                                                        |
|  | The center part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height                                                                                                                                  | No Change                                                                                        |
|  | <b>POWER SUPPLY REQUIREMENTS</b>                                                                                                                                                                                                                  | No Change                                                                                        |
|  | 1. Should operate on Three phase 400 VAC, $\pm 10\%$ , Frequency 50 Hz.                                                                                                                                                                           | No Change                                                                                        |
|  | Should be supplied with suitable capacity servo controlled voltage stabilizer.                                                                                                                                                                    | No Change                                                                                        |
|  | (i) Should have US FDA / European CE (Issued by notified body) / BIS approved.                                                                                                                                                                    | No Change                                                                                        |
|  | (ii) Should have CDSCO certification                                                                                                                                                                                                              | No Change                                                                                        |
|  | (iii) should have AERB Approved model.                                                                                                                                                                                                            | No Change                                                                                        |
|  | Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation singe is responsibility of supplier                                                                                      | No Change                                                                                        |
|  | Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation singe is responsibility of supplier                                                                                      | No Change                                                                                        |
|  | QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.                                                                                          | No Change                                                                                        |

| Name of Equipment:- 600 mA X-Ray Machine |                                                                                                                                                                                          |                                                                                                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SI. No                                   | Technical Specification as per tender                                                                                                                                                    | Final Amendment                                                                                                                                                                      |
|                                          | A high-frequency radiography system for various radiographic examinations                                                                                                                | No Change                                                                                                                                                                            |
| <b>1</b>                                 | <b>High frequency generator:</b>                                                                                                                                                         | No Change                                                                                                                                                                            |
|                                          | a. Microprocessor controlled high frequency x-ray generator should be of latest technology with constant output with low ripple frequency.                                               | No Change                                                                                                                                                                            |
|                                          | b. Output not less than 50 kW.                                                                                                                                                           | No Change                                                                                                                                                                            |
|                                          | c. kV range 40 kV - 125 KV, In 1KV increments                                                                                                                                            | kV range 40 kV - 150 KV, In 1KV increments                                                                                                                                           |
|                                          | d. Output of 600 or more mA at 80 kV                                                                                                                                                     | No Change                                                                                                                                                                            |
|                                          | e. It should have automatic exposure control (AEC) device                                                                                                                                | No Change                                                                                                                                                                            |
|                                          | f. It should have high speed starter                                                                                                                                                     | No Change                                                                                                                                                                            |
|                                          | g. It should have digital display of kVP and mAs                                                                                                                                         | It should have display of KVP, mA and mAs with increase & decrease switch                                                                                                            |
|                                          | h. Anatomical programming radiography should be possible.                                                                                                                                | No Change                                                                                                                                                                            |
| <b>2</b>                                 | <b>X-ray tube:</b>                                                                                                                                                                       | No Change                                                                                                                                                                            |
|                                          | a. Floor mount column stand for x-ray tube with facility of:-Floor Mounted tube stand with 10ft. Long tracks and 98" (249cm) of longitudinal travel. Multi-function, fingertip controls. | Floor mount column stand for x-ray tube with facility of:-Floor Mounted tube stand with 9ft. Long tracks and 98" (249cm) of longitudinal travel. Multi-function, fingertip controls. |
|                                          | Trunnion rings provides a tilt king of the movement to the tube to allow some lateral cross examinations to the transverse tube.                                                         | Deleted                                                                                                                                                                              |
|                                          | Manual movement for horizontal and vertical adjustments                                                                                                                                  | No Change                                                                                                                                                                            |
|                                          | FAIL -SAFE electromagnetic braking system. Column Rotation (+/- 90degree), Transverse (10" travel).                                                                                      | No Change                                                                                                                                                                            |
|                                          | Vertical Travel of 60.5" (154cm) with minimum floor to focus distance of 13.75" (35cm)                                                                                                   | No Change                                                                                                                                                                            |
|                                          | Tube Angulations of +/-135" with detents 0 degree,+/-90"                                                                                                                                 | No Change                                                                                                                                                                            |
|                                          | b. The x-ray tube should be rotating anode high speed and must have dual focus.                                                                                                          | No Change                                                                                                                                                                            |
|                                          | c. Focal spots of the following sizes: Large Focus: 1.2 mm or less.                                                                                                                      | No Change                                                                                                                                                                            |
|                                          | d. Tube load for small focus and large focus, should be at least 30 kW for small focus and at least 50 kW for large focus                                                                | No Change                                                                                                                                                                            |
|                                          | e. Anode heat storage capacity should be at least 300 kHU or more                                                                                                                        | No Change                                                                                                                                                                            |
|                                          | f. Tube protection against overload.                                                                                                                                                     | No Change                                                                                                                                                                            |
|                                          | g. A high speed rotor accelerator (starter) is preferable                                                                                                                                | No Change                                                                                                                                                                            |
|                                          | h. Tube rotation + _90 degree                                                                                                                                                            | No Change                                                                                                                                                                            |
|                                          | i. Should have provision of electromagnetic locks with collision protection sensors.                                                                                                     | No Change                                                                                                                                                                            |

|          |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|          | j. Multileaf collimator having halogen lamp/bright light source, with auto shut off provision of the light, should be available | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>3</b> | <b>Radiographic table (horizontal Bucky table):</b>                                                                             | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | a. Compact floor mounted Bucky table with adjustable height (motorized) and floating top                                        | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | b. Carbon fiber or equivalent table top table with low attenuation and scratch resistant surface.                               | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | c. Table must be of following minimum dimensions: Length 2160 mm or more, width 600 mm or more and height 900 mm or more.       | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | d. Table should support patient weight of 200 kg. or more                                                                       | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | e. Foot switches for adjusting height.                                                                                          | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | f. Grid movement facility should be available. Should have a grid ratio of 10:1 or more                                         | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>4</b> | Vertical Bucky: Chest Stand-Good quality, wall mounted, fixed chest stand, vertical movement up to 5 feet.                      | <b>VERTICAL BUCKY STAND:</b><br>a) Should be Floor Mounted Vertical bucky stand with vertical travel upto 1000mm or more equipped with stainless steel cassette tray.<br>b) Should have Electromagnetic locking system operated through cassette tray Hand Grips.<br>c) Should have Oscillating Bucky with integrated high density Anti Scatter Grid* with grid ratio of 10:1, grid density of 103 Lines/inch focus at 115 cm.<br>d) Bucky should accommodate cassette size 8"x10" to 14"x17"<br>e) It should be counterweight balanced.<br>f) Material used in vertical Bucky column stand should be made of corrosion free material like Aluminium, Titanium, super alloy etc.<br>g) Should have provision of doing chest radiography without grid. |
| <b>5</b> | <b>Accessories:</b>                                                                                                             | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | a. Suitable rating, Voltage stabilizer servo controlled should be supplied.                                                     | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          | b. Lead lining for doors                                                                                                        | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|          |                                                                                                                                                                           |           |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|          | c. 0.35 lead equivalent, radiation protection aprons of good quality- (two)                                                                                               | No Change |
|          | d. Two thyroid shields.                                                                                                                                                   | No Change |
|          | e. One stand for radiation protection aprons.                                                                                                                             | No Change |
|          | f. Lead screen (with lead glass window)                                                                                                                                   | No Change |
|          | g. Patient fixing belts and compression device (for performing excretory urography, etc.)                                                                                 | No Change |
| <b>6</b> | <b>Approvals:</b>                                                                                                                                                         | No Change |
|          | Certification:- (i) Should have US FDA / European CE (Issued by notified body)/ BIS approved. (ii) Should have CDSCO certification (iii) should have AERB Approved model. | No Change |
|          | b. QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.               | No Change |