

Technical and General specifications for up-gradation of the Old model Equinox-100 Telecobalt machine

Up-gradation of the old Tele-cobalt Equinox-100 machine(Model no.2038 /version 2.01) is to be done via introduction of new technology to restore its original operational status with identical functionality, machine uptime, safety, cost/performance ratio to the current version of the Equinox-100 telecobalt machine with the installation of necessary up-graded hard-wares and soft-wares to the existing machine.

Technical Specification

A. Up-gradation of the following operational status with necessary installation of upgraded hardwares and software:

1. Asymmetric Collimator

Asymmetrical collimator assembly defines the X and Y axes relative to the collimator axis. The X and Y leaf positions are displayed on the in-room display monitor(s).

Collimator Rotation: The collimator may be rotated $\pm 180^\circ$ from its central position

2. Motorized Wedges

A 60° wedge affixed to the inside of the collimator moves in the path of the beam to the "In" position for the wedged time entered at the control console.

3. Anti Collision Detection Device.

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4. Auto Set-up

The auto set-up feature allows the operator to move the gantry, field size and collimator rotation at the touch of a button from the hand control. The treatment parameters are entered at the control console and the operator is able to move the unit from inside the treatment room to position the field size and the collimator rotation to the entered value. The gantry can be moved remotely from outside the treatment room at the control console.

5. Safety and Protective Interlocks as per AERB guideline.

6. Patient Positioning Table.

7. Up-gradation of software with added features.

B. Commissioning work of the up-graded machine

1. Set-up of the upgraded Equinox-100 telecobalt machine.
2. Installation of all cables and connecting the upgraded unit and control console to a suitable source of electric power.
3. A complete operational test of the new operational hardware and software system upon completion of installation to ensure it meets specifications.
4. Commissioning work of the unit.

General Specification

1. Company will provide free of cost for the loading charge of cobalt source after procurement of source by the Institute for commissioning the machine and commissioning will be carried out by the company/it's authorized agents at no additional cost (free of cost).
2. Commissioning of equipments include turn key repairing of room, renovation if required.

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3. The warranty of the machine should be one year comprehensive after commissioning from first patient treated as per AERB norms and another one year AMC free of cost should be offered after completion of the one year warranty.
4. Company should be responsible for the working condition of the machine and supply of spare parts for at least 15 years from date of Commissioning of the machine. List of the important spare parts and accessories with their part number and cost without GST should be provided.
5. Company should provide at least 10 (ten) years AMC charges without GST.
6. The necessary approval from AERB and other certificates like NOC should be obtained and provided.
7. In case the Indian representative (agency/company) of company changes it shall be responsibility of company to run machine till it's full life. Original company should submit declaration for this.
8. Company must provide associated some hand instruments for commissioning the machine at free of cost if required including the following general accessories (one number for each item).

- 1) Mechanical front pointer
- 2) Universal Wedge Kit
- 3) Wedge Filter Storage Tray
- 4) Plain Acrylic Shielding Tray
- 5) Slotted Shaping Tray Assy
- 6) Beam shaping Kit
- 7) Three Laser System

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9. The supplier or its Indian national representative company should provide one certified service engineer permanently at Imphal or nearby station to attend it immediately when required.


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