

**ICU/HDU Bed Specification with Accessories**

Sl.No.	Specifications
<b>1</b>	<b>Bed should be equipped with following features:</b>
a	Must be heavy duty, top quality and fully electrically operated bed specially designed for high standard care.
b	Must have four section bedding area, made from ABS plastic removable parts -hygienical aspects.
c	The control panel a multipurpose control element for complete bed control shoule be located on bed panels/side rails.
d	The bed should equipped with automatic in-bed scale with memory indicate the actual weight of patient and provide the history of collected data with ny physical intervention of staff with accuracy of 500 gms. 77
e	The bed should have X-ray translucent mattress platform which enables in-bed X-ray examination or C-arm scanning with minimum effort. X-ray cassette holder is inserted from the left side of the bed/through mattress /accessible side X-ray slot.
f	The bed must have one touch CPR position for immediate release.Manual dual sided CPR levers to flatten the backrest. Release for back.
<b>2</b>	<b>Bed should be equipped with following features to prevent the patient fall with follwing features:</b>
a	Progressive split side rails with a safe gap concept and exceptional height provide excellent fall prevention and must have special protection for paediatric patient to avoid limb entrapment.
b	Intuitive control of the side-rails should enable the quick access to the patient in any situation.
c	One point central braking facility must be there as a mandatory safety feature.
d	An audible alarm is activated if patient moved closed to the bed edge to warn the potential danger and possible risk of a fall.
e	Must have Night Light.
f	All the bed movements must be through control panel / side panel like weight / TR / RTR / back angle display at head side rail.
g	Bed should have Blow moulded ABS plastic four sectional fully removable curved mattress platform.
<b>3</b>	<b>Management of pressure Ulcers to patient</b> ✓
a	Air/Gel Structure Mattress shuold be provide to promote airflow up through the mattress direct beneath the patient and acts as prevention against pressure ulcers in the pelvic and sacral area.
b	BED & Mattress are preferably from Same OEM to get better synchronization & service support. Emergency CPR release of the bed to be manual. Mattress Should come with air pump compatibility With Transport Static & Alternating mode.
C	Mattress Should of air and highdensity foam with antimicrobial waterprof vapor permeable strech cover with zipper all arround .Must have alarm for any fault detection.
<b>4</b>	<b>Bed should have following features for infection control</b>
a	The construction provides the unlimited access to all bed parts to be cleaned. The columns/ actuators / motors are sealed to avoid liquids leakage into inner structure.

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b	The siderails, mattress platform covers and other components exposed to frequent pollution are designed in the flat and smooth style with minimum gaps to reduce the time for cleaning.
<b>5</b>	<b>Technical Parameters</b>
a	Outer dimensions (Side rails up) 215 cm X 105 cm
b	Mattress platform shorting / Extension 0 cm - 22 cm
c	Recommended Mattress Size 208 cm X 86 X 14 cm
d	Max Mattress height 20-25 cm
e	Bed height (32-42 cm) - (75-80cm) through actuator / motor
f	Maximum Backrest angle 65-70 Deg
g	Maximum thigh rest angle 20 deg or more
h	Trendelenburg / Anti-Trendelenburg Position : + 12° or more
i	Height of Side-Rails (Above Mattress Platform) : minimum 30 cm or more
j	Safe working load 250 Kgs
k	Patient weight load of minimum 150 kg
l	Battery back up with indicator of capacity and lifetime
m	Controls must be embedded in the foot end //side panels (Wired remote acceptable and covered under warranty & CMC with head end side rail LCD display of weight) for caregiver operation & side end for patient operation
n	Should have angle indicator for back & TR/RTR/digital display
o	Single button operated motorised cardiac chair position
p	Should have Bed exit alarm
<b>6</b>	<b>Accessories</b>
i	Two nos. of telescopic IV pole with weight carrying capacity of 12-15 kg each must be supplied along with each bed .These IV poles must be covered (replacement warranty ) throughout the warranty & CMC period.
ii	Bed must have trays to keep patient reports.
iii	Bed must have a oxygen cylinder ( of minimum capacity of 1.5m <sup>3</sup> ) holder to keep oxygen cylinder during transporting of the patient.
iv	Bed must have inbuilt battery backup for all functions for at least 1 hour.
v	Bed must have Dual sided integral drainage bag rails with hooks
vi	2 nos of Patient Transfer Roller Board/Sliding transfer board (for quick and efficient patient transfers must be Constructed of high quality PP board inside,must be covered with special customized nylon material With washable cloth &easy to clean)must be supplied along with the total no of beds.
viii	Adjustable Bed Side Table- 1 nos must be supplied along with each bed.
1	Overall Size of top should be 810 mm x 352 mm W.
2	Fitted with gas spring mechanism shall have latch pressing mechanism for lowering down the table top: the raising of the top shall be done by merely lifting up without pressing the latch.
3	The gas spring shall be housed in aluminium extruded telescopic section for smooth sliding up and down from approx. 760 to 1050 mm.
4	Two sections top shall be fixed on 19 mm square ERW tube frame Work.Fixed section is provided with rounded SS railing of mm dia rod on three sides.

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5	Bigger section of the table top should be hinged & could be inclined to raise position options front side of bigger section of the top should be provided with raised PVC edge to prevent things from slipping off top.
6	Base of adjustable table should be made from 40 mm x 20 mm x 16 G rectangular tube welded to 40 mm x 75 mm x 5 mm thick channel connecting length 640 mm and should be fitted with four castor Wheel Dia 50 mm.
7	M.S. tubular part, Linkages, flats are to be In House, Pre-treated, Shot Blasting and Epoxy powder coated as per ISI standard, 50 to 60 microns.
ix	Bed side locker-1 nos must be supplied along with each bed
1	Over all approx. size: 40 cms x 40 cms x 82 cms H
2	Body consisting of 2 sides and back, is made from one piece of 20 G ms CRCA sheet. Fitted with laminated top with raised edges on four sides and pressed with PVC foil.
3	Drawer front and cabinet door also made from laminated material and pressed with PVC foil.
4	PVC foil used is of scratch-resistant and UV-rays resistant of 400microns thick. One drawer 90mm H x 355 mm W x 380mmD approx fitted with very smooth slides, is provided below the top.
5	Under the drawer is an open storage space and below it is a closed-door cabinet.
6	Door of the cabinet box is pivoted at top and bottom. Base of the drawer is fitted with castors of wheel dia 50 mm, all without brake.
7	Two buffers shall be provided at rear side of the locker box.
8	All MS parts are passed through 8 tank Pre-treated & powder coated process. SS parts finished with Matt Polish.
9	colour should match with other product.
x	CPR board - 1 nos must be supplied along with each bed.
xi	Baby Bassinet-5 nos in total
	Size : L870 X W510 X H840-970mm + 10%
	Height adjustable by gas spring 840-970mm + 10%
	Moulded Plastic Crib (without joints) with clear visibility for observer.
	Smooth Rotating Castors 100mm Dia will provide silent transportation.
	Brakes on opposite castors.
	With 10° or more Trendelenburg (TR) & Reverse Trendelenburg (RTR) position.
8	<b>Documentation:</b>
1	User / Technical / Maintenance manuals to be supplied in English.
2	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
3	Cost consumables and accessories like PM Kit, Battery ,Hose pipe, Mattress Cover ,embeded panel (if physically damaged), castors etc, which are not listed in BOQ & not covered under warranty (no spare parts will be considered as consumables / accessories ) & CMC period has to quote in schedule XI as percentage value in the Technical Bid, or else will be consider to be cover throughout the warranty & CMC period.

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4	Calibration and routine Preventive Maintenance Support as per manufacturer documentation in service / technical manual has to be done throughout the warranty & CMC
5	Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page / Para number of original catalogue / data sheet and the offer details has to submit in the technical bid. Any point, if not substantiated with authenticated catalogue / manual, will not be considered.
6	Certificate of inspection and quality control indicating the S / N for all non-consumable items with date at the time of installation.
9	<b>Environmental factors &amp; safety</b>
1	Shall meet IEC-60601-2-52(Or Equivalent BIS) General Requirements of safety & should comply with 89/366/ECC; EMC-Directive. Certificate copy must be submitted in the technical bid.
2	The unit shall be capable of operating continuously in ambient temperature of 4-40 deg C and relative humidity of 15- 90 % .
3	The unit shall be capable of being stored continuously in ambient temperature of 10-50 deg C and relative humidity of 15 - 90 %.
10	<b>Warranty and Maintenance</b>
1	Warranty for 5 years followed by CMC for 5 years including Spares & service.
2	Mandatory 2 PMs / Year with unlimited breakdown calls has to be attended by the bidder/manufacturer throughout the warranty & CMC period at site.i.e. NEIGRIHMS, SHILLONG.
3	Duly signed Mandatory PM reports has to be submitted periodically, falling which necessary action will be initiated as per term& condition of the tender.

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