

Amendment -I

Subject: Supply & Installation of Hospital Furniture for setting up 150 bed hospital at Dikoya, near Hatton in Central Sri Lanka.

IFB No. : HSCC/PUR/MEA/SriLanka/2013 dated 03.03.2013.

This has reference to above IFB No. for the Subject works.

The following Amendment may be noted which shall be treated as part of the contract to be submitted duly signed & stamp along with tender. Following items are **added** that will be part of this package.

Sr. No.	Item	Qty.
1	ICU Beds	8
2	ICU Beds with Air fluidized mattress	2
3	Instrument Trolley	6
4	Baby Cradles	4
5	Instrument Tray with cover	1
6	Instrument cabinet	2
7	Trolley for Oxygen transport with O2 cylinder	8
8	Single step stool	2
9	Dressing trolley	2
10	Emergency crash cart	2
11	Delivery Beds	2
12	Delivery Tables (Labor)	3
13	Gyn. Examination Table	2

Technical Specification & BOQ for these **added items** are enclosed as per Annexure – I & II.

Revised Bid security amount is **Rs. 1,34,330/-** instead of Rs.82,000/- and estimated cost is **Rs. 67.16 Lakhs** instead of 41.0 Lakhs.

All other terms & conditions remain unchanged.

DGM (Civil)

TECHNICAL SPECIFICATION (For added items)

Instruments Trolley Plain (SS)

The Instruments Trolley shall generally conform to IS-5631-1970 subject to following specifications:

- Frame : Argon welded & SS tubular rust free construction.
- Top : Two rust free SS shelves conforming to 04Cr18 Ni or 07 Cr 18 Ni
9 grade as per IS-6911-1972 with protective sides railing on three sides.
- Castors : 8cm/7.5cm dia. Wheel type swiveling castors having
antistatic rubber tread conforming to IS-4043-1979.
- Shape & Dimension : Overall size 660mm L X 430MM W X 830MM H as per IS-5631-1970.
- Material : Vertical SS tubes of 25mm x 18G. Longitudinal SS tubes of approx. 19mm x 18G. Railing of SS 10mm rod. SS top of 21G shelves conforming to 04 Cr 18 Ni 10 or 07 Cr 18 Ni 9 grade as per IS-6911-1972.
- Finish : Finish bright
- Test : As per 6.1.2. of IS-4033-1968 & latest amendments issued if any.
- Marking : According to 7 or IS-4033-1968 & latest amendments issued if any.

Baby Cradle

Crib Size : 76L X 42W cm.

Height to crib top : 103 cm

Strong CR, EWR tubular steel stand on four rubber stamps with hanging bright bars mesh crib. Provided with mosquito net aluminium rod. Pretreated with-in 7 tanks hot process & epoxy powder coated min. 50 microns with phosphate layer underneath for corrosion resistance.

Instruments Tray with Cover (S.S.)

- Material Stainless Steel
- Sizes 300 x 150 x 50mm
 350 x 250 x 50mm
- Minimum thickness 0.5mm and (IS 3993)
- Polished bright and free from sharp or open edges, distortion dents wrinkles, wavy surfaces, burrs, scratches.
- The above product should confirm to IS:5522, 1992 standard and in respect of materials welding, test and performance.

Instrument Cabinet

Length (1676mm \pm 10mm), width (914mm \pm 10mm), breadth (456mm \pm 10mm).
Fabricated using 18SWG MS sheet for back and side cover. Front cover of 18SWG MS sheet.

Front door is fitted with glass panel of 4mm thick with locking facility & should have 4 nos. of glass shelves 10mm thick. The cabinet should be rested on an antirust base. Epoxy powder coating with white colour with 50microns.

The above product should conform to applicable ISI standard in respect of materials, welding process, test & performance. Conforming to BIS 6877 standard or equivalent.

Trolley for Oxygen Transport with Oxygen Cylinder

Rotameter & humidifier

B Type

- Maximum Working Pressure : 150 Kg/cm²
- Test Pressure 250Kg/ cm²
- Water capacity : 10.0 Ltr.
- Gas Capacity : 1.53 Cu.m.
- Outside Diameter 165 mm
- Minimum Wall Thickness 5.0mm
- Length 640mm
- Tear Weight 16.5 Kg

The valves fitted to these cylinders should conform to specifications IS:3224 & IS:3745

- The Cylinder being offered should be manufactured within the country or imported from abroad and should conform to IS Specifications 7285 and BS 5045 Part I respectively.
- They should also have approval of the Chief Controller of Explosives, Govt. of India, Nagpur.
- Each Cylinder Shoulder should be stamped with GG: Symbol for Gas, Mfgr.: Identification mark, MMY: Month & Year of Hyd.. Test XYZ: Serial No. of Cylinder, IS 7285: B.I.S. Specifications, TW: Tear Weight, TP: Test Pressure FP:

Single Step Stool

The general requirements shall be as per IS-4033-1978.

Frame	:	Frame work of welded tubular construction.
Top	:	Top CRCA 18G sheet. Aluminium top tread plates.
Shoes (year use).	:	Legs fitted with rubber shoes durable quality (free for 1 year use).
Dimensions	:	Height 20-22cms. Step size about 500mm x 300mm W.
Material CRCA	:	Vertical tube of ERW 18G support rod of 9.8mm & top of 18G sheet.
Finish	:	Pretreated & powder coated in 50 microns thickness.
Test	:	As per IS-4033-1968 & latest amendments issued if any.
Marking	:	As per IS-4033-1968 & latest amendments issued if any.

Dressing Trolley SS (with bowl & bucket)

The general requirements shall be as per IS-4033-1968 as well as IS-4769 subject to following specifications:

Frame	:	Welded tubular construction two stainless steel pipes.
Top Ni 9	:	Two stainless steel of designation 04Cr18 Ni 10Ni 10 or 07 Cr 18 Of IS-6911-1972 shelves with protective sides railing of stainless steel.
Castors	:	Mounted Wheel type 4 nos. swiveling castors as per IS-4043- 1979.
Shape & Dimension size	:	Overall size (approx.) 1010mm L X 510mm W X 900mm H, shelf 750L X 500 mm W (2nos.) with protective sides railing on all sides (as per IS-4769).
Material railing	:	Vertical pipe 1.1/4" x 18G SS longitudinal pipe of 3/4" x 18G SS 10mm SS rod. Shelf 21 SS sheet, bowl & bucket rings of 10mm rod. SS bowl & bucket of 25G SS.
Test	:	Good quality durable rust free.
Finish	:	As per IS-4033-1968 & latest amendments issued if any.
Marking	:	According to IS-4033-1968 & latest amendments issued if any.

Emergency Crash Cart (SS)

Frame coloured	:	Welded tubular construction two stainless steel tubes with 6 removable bins & 2 polystyrene lockable storage unit of 3 drawers each. Top drawers to have containers of different sizes. Should have cushioned frame to keep oxygen cylinder.
Top 6911-	:	Stainless steel of designation 04Cr18 Ni 10 or 07 Cr 18 Ni 9 of IS-1972 top of 21G sheet.
Castors	:	Four swiveling castors as per IS-4043-1979 two with brakes.
Dimension 6911-	:	Stainless sheet of designated 04Cr18 Ni 10 or 07 Cr 18 Ni 9 of IS-1972 top of 21G sheet frame of SS 1" X 18g tubes and 3/4" x 18G tubes. Two polystyrene lockage storage with three drawers each. SS 12mm rod for IV cardiac message board of 12mm thick ply duly laminated.
Material 6911-	:	Stainless sheet of designated 04Cr18 Ni 10 or 07 Cr 18 Ni 9 of IS-1972 top of 21G sheet frame of SS 1" X 18g tubes and 3/4" x 18G tubes. Two polystyrene lockage storage with three drawers each. SS 12mm rod for IV cardiac message board of 12mm thick ply duly laminated.
Test	:	As per IS-4033-1968.
Finish	:	Good quality durable rust free as per IS-4033-1968.
Marking	:	According to IS-4033-1968.

I.C.U Beds

1 Description of Function

1.1 ICU Beds are required in the Intensive Care for comfort of the patient and to facilitate comfortable transfer to and fro emergency/OT/Wards etc. It is also required to carry out point of care procedures including radiological procedures at the bedside.

2 Operational Requirements

2.1 The system should be electrically operatable and adjustable for heights, trendelenburg etc. It should also be having radiotranslucent top for carrying out X-Ray at the bedside

3 Technical Specifications

3.1 Should have four section mattress base

3.2 Should have X-Ray translucent back section made up of high pressure laminate.

3.3 Should have X-Ray cassette holder underneath the back section & should allow insertion of X-Ray cassette from either side of the bed.

3.4 Base frame & support frame should be made up of steel for long life & prevention from rusting.

3.5 Should have stepless electrical adjustment for the following :-

Height : 450-840 mm

Back section : 0- 50 degrees

Leg Section : 0-30 degrees

3.6 Should have stepless pneumatic adjustment for Trendelenburg (20-25° approx), anti-trendelenburg (10-15° approx)

3.7 Should have a manual quick release mechanism for back section adjustment during emergency situation.

3.8 Should be equipped with four articulated half length tuck away side rails

3.9 Should be equipped with large castors (diameter 150 mm) with central braking and steering facility.

3.10 Mattress of the Bed should be made up of high density foam with Anti Microbial agent incorporated into all components that assists in Prohibiting growth of bacteria & fungi and easy to clean.

3.11 Mattress should be fully Radiolucent for ease in performing portable X-Rays.

3.12 Should have bumpers at all four corners and place for fixing accessories

3.13 Dimensions of bed :

Length : 2100 -2290 mm

Width : 850 -1020mm

Mattress Size : appropriate as per bed size

4 System Configuration Accessories, spares and consumables

4.1 I.C.U Bed Mainframe -01

4.2 Bed Ends, detachable : 01 pair

4.3 Articulated half length tuck away side rails : 04 Nos.

4.4 IV Rods : 01 No.

4.5 Mattress 12 cm Thick : 01 No.

5 Environmental factors

5.1 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

5.2 The unit shall be capable of being stored continuously in ambient temperature of -20 - 50 C and relative humidity of 15-90%. 5.3 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%

6 Power Supply

6.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug

6.2 Resettable overcurrent breaker shall be fitted for protection

7 Standards, Safety and Training

7.1 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450

7.2 Should be FDA or CE approved product

7.3 Electric Shock Protection level-Class-B

7.4 Electric current Protection- Class -1

7.5 Certified to be compliant with IEC 60601-2-38 Medical Electrical Equipments part 2-38 Particular requirements for safety of Electrically Operated Hospital Beds

7.6 Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

8 Documentation

8.1 Certificate of Calibration and inspection from the factory

8.2 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service /technical manual.

8.3 List of important spare parts and accessories with their part number and costing

8.4 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.

The job description of the hospital technician and company service engineer should be clearly spelt out.

8.5 Service manual in English

8.6 User manual in English.

I.C.U Beds (2 no.) with Air Fluidized Mattress

1 Description of Function

1.1 ICU Beds are required in the Intensive Care for comfort of the patient and to facilitate comfortable transfer to and from emergency/OT/Wards etc. It is also required to carry out point of care procedures including radiological procedures at the bedside.

2 Operational Requirements

2.1 The system should be electrically operatable and adjustable for heights, trendelenburg etc. It should also be having radiotranslucent top for carrying out X-Ray at the bedside

3 Technical Specifications

3.1 Should have four section mattress base

3.2 Should have X-Ray translucent back section made up of high pressure laminate.

3.3 Should have X-Ray cassette holder underneath the back section & should allow insertion of X-Ray cassette from either side of the bed.

3.4 Base frame & support frame should be made up of steel for long life & prevention from rusting.

3.5 Should have stepless electrical adjustment for the following :-

Height : 450-840 mm

Back section : 0- 50 degrees

Leg Section : 0-30 degrees

3.6 Should have stepless pneumatic adjustment for Trendelenburg (20-25° approx), anti-trendelenburg (10-15° approx)

3.7 Should have a manual quick release mechanism for back section adjustment during emergency situation.

3.8 Should be equipped with four articulated half length tuck away side rails

3.9 Should be equipped with large castors (diameter 150 mm) with central braking and steering facility.

3.10 Mattress of the Bed should be made up of high density foam with Anti Microbial agent incorporated into all components that assists in Prohibiting growth of bacteria & fungi and easy to clean.

3.11 Mattress should be fully Radiolucent for ease in performing portable X-Rays.

3.12 Should have bumpers at all four corners and place for fixing accessories

3.13 Dimensions of bed :

Length : 2100 -2290 mm

Width : 850 -1020mm

Mattress Size : appropriate as per bed size

4 System Configuration Accessories, spares and consumables

4.1 I.C.U Bed Mainframe -01

4.2 Bed Ends, detachable : 01 pair

4.3 Articulated half length tuck away side rails : 04 Nos.

4.4 IV Rods : 01 No.

4.5 Mattress 12 cm Thick : 01 No.

5 Environmental factors

5.1 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

5.2 The unit shall be capable of being stored continuously in ambient temperature of -20 - 50 C and relative humidity of 15-90%. 5.3 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%

6 Power Supply

6.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug

6.2 Resettable overcurrent breaker shall be fitted for protection

7 Standards, Safety and Training

7.1 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450

7.2 Should be FDA or CE approved product

7.3 Electric Shock Protection level-Class-B

7.4 Electric current Protection- Class -1

7.5 Certified to be compliant with IEC 60601-2-38 Medical Electrical Equipments part 2-38 Particular requirements for safety of Electrically Operated Hospital Beds

7.6 Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

8 Documentation

8.1 Certificate of Calibration and inspection from the factory

8.2 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service /technical manual.

8.3 List of important spare parts and accessories with their part number and costing

8.4 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.

The job description of the hospital technician and company service engineer should be clearly spelt out.

8.5 Service manual in English

8.6 User manual in English.

Air mattresses for burns patients:

Alternating pressure every 10 minutes. Whisper quiet with adjustable pressure settings. Low pressure/Normal pressure indicator lights. Patented CPR release. Convoluted safety foam base with water proof covering to eliminate contamination. Low friction/ shear water proof top cover. Maximum patient weight 150 kg or more. Inflated dimensions approximately 35”Wx80”Lx8”H.

Delivery Bed

1 Description of Function

1.1 Delivery bed is used for Baby Delivery and should incorporate ideal blend of the patient's individual requirements on comfort and the professional needs of the delivery team, focusing on the esthetic and functional design of the entire product.

2 Operational Requirements

2.1 Delivery bed should be supplied with all accessories as mentioned in the technical specifications.

3 Technical Specifications

3.1 Delivery Bed Should have following essential specifications:

- 1• It should have control devise for making height and back adjustments.[manual as well as remote control].
- 2• It should have collapsible side rails
- 3• It should have three sectional mattress and seat section should have large perineal cut.
- 4• It should have head board which can be detached.
- 5• Should have wheels provided with locking system.
- 6• Should have retractable foot section so as to convert bed into table.
- 7• Should have infusion rods which have adjustable heights, quick release and attaches to all corners of bed.
- 8• Should have adjustable leg rests available as an accessory.
- 9• Should have push grip handles
- 10• Should have sliding stainless steel bowl at perineal part of table.
- 11• It should have catheter bag holder which can be attached on either side of bed.
- 12• It should be able to give trendelenburg, reverse trendelburg and 70 degree sitting position both mechanically and electronically.
- 13• It should have adjustable foot supports for nursing staff
- 14• It should be easy to clean, sterilize (especially blood stains) and maintain.
15. Frame should be of epoxy powder coated steel
- 16.Dimensions - Length 6feet and width =2 and half feet.

4 System Configuration Accessories, spares and consumables

4.1 All consumables required for installation and standardization of system to be given free of cost.

5 Environmental factors

5.1 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for

Electromagnetic Compatibility. or should comply with 89/366/EEC; EMC-directive.

5.2 The unit shall be capable of operating continuously in ambient temperature of 10-40 deg C and relative humidity of 15-90%

5.3 The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%

6 Power Supply

6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug

6.2 UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.

7 Standards, Safety and Training

7.1 Should be FDA/CE or BIS approved product

7.2 Comprehensive training for lab staff and support services till familiarity with the system.

7.3 Electrical safety conforms to standards for Electrical Safety IEC 60601-2-38

Particular safety

requirements for Electrically operated hospital beds.

8 Documentation

8.1 User/Technical/Maintenance manuals to be supplied in English.

8.2 List of Equipments available for providing calibration and routine Preventive Maintenance

Support. as per manufacturer documentation in service/technical manual.

8.3 Certificate of calibration and inspection.

8.4 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point ,if not substantiated with

authenticated catalogue/manual, will not be considered.

8.5 List of important spare parts and accessories with their part number and costing.

Delivery Table (Labour)

- Tubular stainless steel frame with three section SS top with manually operated back rest on ratchet semi circle U notch on middle section.
- Foot end section sliding completely (telescopically) under main frame. Adjustable height & trendelenberg/reverse trendelenberg position. Gas spring assisted/strong mechanism. Pair of detachable padded leg rest. Self looking traction handle.
- Adjustable IV rods.
- Swing, away side railing on two sides with mattress covered with leatherite.
- Size 180cm length x 68cm W x 75cm H.

Gynaecology Examination Table

- Tubular stainless steel frame with three section SS top with manually operated back rest on ratchet semi circle U notch on middle section.
- Foot end section sliding completely (telescopically) under main frame. Adjustable height & trendelenberg/reverse trendelenberg position. Gas spring assisted/strong mechanism. Pair of detachable padded leg rest. Self looking traction handle.
- Adjustable IV rods.
- Swing, away side railing on two sides with mattress covered with leatherite.
- Size 180cm length x 68cm W x 75cm H.

Annexure-II

BILL OF QUANTITIES (For Added Items)

IFB No. : HSCC/PUR/MEA/SriLanka/2013 dt. 03.03.2013

Supply, installation & commissioning of Hospital Furniture at District General Hospital, Dikoya, Sri Lanka.

S.No.	Bill of Quantity (BOQ)	Quantity (nos.)	Rate in Indian Rupees in figures	Rate in Indian Rupees in words	Amounts in Rs.
1.	Supply, installation, testing & commissioning of ICU Beds as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	8			
2	Supply, installation, testing & commissioning of ICU Beds with Air fluidized mattress as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			
3	Supply, installation, testing & commissioning of Instrument Trolley as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	6			
4	Supply, installation, testing & commissioning of Baby Cardles as per technical specifications.	4			

	Sample to be shown for approval from client/consultant before manufacturing.				
5	Supply, installation, testing & commissioning of Instrument Tray with cover as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	1			
6	Supply, installation, testing & commissioning of Instrument Cabinet as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			
7	Supply, installation, testing & commissioning of Trolley for Oxygen Transport with O2 Cylinder as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	8			
8	Supply, installation, testing & commissioning of Single Step Stool as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			
9	Supply, installation, testing & commissioning of Dressing trolley as per technical specifications. Sample to be shown for	2			

	approval from client/consultant before manufacturing.				
10	Supply, installation, testing & commissioning of Emergency crash cart as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			
11	Supply, installation, testing & commissioning of Delivery Beds as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			
12	Supply, installation, testing & commissioning of Delivery Tables (Labor) as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	3			
13	Supply, installation, testing & commissioning of Gyn. Examination Table as per technical specifications. Sample to be shown for approval from client/consultant before manufacturing.	2			

