HSCC/PMSSY-BB/Pkg-II/Hospt Fur/ 2019 Dated: 22.11.2019

AMENDMENT NO.–II

All Bidders.

Project Name: "Package-II: Supply, Installation, testing & commissioning of Hospital Furniture and other associated works and their maintenance during defect liability period for Super Specialty Block at Burla & Brahmapur (Odisha) under Pradhan Mantri Swasthya Suraksha Yojana (PMSSY-III)**"**

Tender No: HSCC/PMSSY-BB/Pkg-II/Hospt Fur/ 2019**,** Dated: 31.10.2019

This has reference to the subject works.

The following **AMENDMENT-II/Clarification-II** may be noted, which shall be treated as a part of tender to be submitted online duly signed & stamp along with tender**:-**

1. Enclosed at Annexure-I

All other terms & conditions of tender shall remain unchanged.

Prospective bidders are advised to regularly scan through HSCC e-tender portal http://www.tenderwizard.com/HSCC and http://www.hsccltd.co.in and as corrigendum /amendments etc, if any, will be notified on this e- tender portal only and separate advertisement separate advertisement will not be made for this.

(-Sd-)
Sr. Manager (Civil)
HSCC (India) Limited

Existing Clause	Amended Clause
Technical Specification Vol-III, Hospital Furniture, BOQ Item No. 02 Fully Motorized Bed :- Fully automatic wire remote control Intensive care unit bed with back rest up down, knee rest up-down, tredelenburg and reverse tredelenburg, hi-low, cardiac chair position controlled through noiseless electromechanical actuators (Ti motion make) operated bysoft touch attendant(nurses')control panel. The overall dimension should be 2206 mm (L)x 1010mm(W)x Height adjusted from 450 mm to 825 mm without mattress. Base frame should made of 30mmx 60mm 2mm thick CRCA rectangular tube with the bed frame of 50x 25mm and 40 x20mm, 2mm thick rectangular tube. The fully automatic wire remote controlled intensive care unit emergency bed should have four section lying surface with ABS vacuum from with antimicrobial property which should be easily removable, washable to maintain hygiene with integrated mattress retainer. The bed should have four numbers of pp moulded side board with drop down mechanism, completely collapsible to maintain zero transfer gap. There should be 4 nos of bumpers given at the four corners made up of neoprene with excellent shock absorbing property. In order to achieve the Deep vein Thrombosis (DVT) position, the lower leg rest portion of the bed frame should have the provision of a ms zinc plated ratchet (Hettich make) . The ratchet should be adjustable in eight different positions. The back rest, Knee rest, tredelenburg & Anti tredelenburg positions should be operated up to 70 degree, 24 degree and 15 degree respectively. There should be two nos of CPR lever given at the both side of the bed to make quick release of the back rest. The head	Technical Specification Vol-III, Hospital Furniture, BOQ Item No. 02 Fully Motorized Bed :- Fully automatic wire remote control Intensive care unit bed with back rest up down, knee rest up-down, tredelenburg and reverse tredelenburg, hi-low position controlled through noiseless electro mechanical actuators operated by soft touch control panel. The overall dimension should be 2206 mm (L)x 1010mm(W)x Height adjusted from 430 mm to 775 mm without mattress. Base frame should made of 30mmx 60mm 2mm thick ERW rectangular tube with the bed frame of 50x 25mm and 40 x20mm, 2mm thick rectangular tube. The fully automatic wire remote controlled intensive care unit emergency bed should have 1.2 mm thick metal (MS) lying surface with integrated mattress retainer. The bed should have four numbers of pp moulded side board with drop down mechanism, completely collapsible to maintain zero transfer gap. There should be 4 nos of bumpers given at the four corners made up of neoprene with excellent shock absorbing property. There should be two nos of CPR lever one at either side of the bed for quick release of the back rest. In order to achieve the Deep vein Thrombosis (DVT) position, the lower leg rest portion of the bed frame should have the provision of a ms zinc plated ratchet (Hettich make) . The ratchet should be adjustable in eight different positions. The back rest, Knee rest, TR & ATR positions should be operated up to 70 degree, 24 degree and 15 degree respectively. The control panel should contain a key which can bring the bed to cardiac chair position in one touch. The head board and leg board should be with 3mm wall thickness. The head board, leg board & side boards should have provision for color stickers & made of moulded pp with antibacterial additives. Both the head & leg board should be removable without locking mechanism for ease of use during emergency. The bed should be provided with 125mm plastic injection moulded single wheel castors , two with break two without break. It should have accessories like urine holders .The unit should have the total load bearing capacity of 250 kg with patient load bearing capacity

board and leg board should be with 3mm wall thickness. The head board, leg board & side boards should have provision for colour stickers & made of premolded polypropylene with antibacterial additives. Both the head & leg board should be removable without locking mechanism for ease of use during emergency. There should be four nos of nylon molded patient lifting pole holders and saline stand holders provided at the four corners of the bed. High Quality Castors used are single wheel diagonal locking castors. It should have accessories like urine bag holders; ms chrome plated linen tray and provision for bed extension upto 180mm. The bed should have provision for front loading medium sized ms made oxygen cylinder cage. The unit should have the total load bearing capacity of 300kg with patient load bearing capacity of 135kg. The unit should work on power input of 230v +/- 15% and 50-60 HZ as appropriate fitted with Indian plug. All the MS parts should be treated with nine tank pre-treatment procedure with zinc phosphate and powder coated with antimicrobial and thermosetting epoxy polyester to control the bacterial growth. Bed should be provided with telescopic IV pole. This SS made IV pole should be of MS frame and SS made saline stand which can be fitted on the bed. The bed should be provided with 40 density 100 mm thick PU foam mattress which should be covered by heavy helium material which is water proof, flame retardant, vapour & X-ray permeable. The zip & stitches for the mattress cover should be concealed. Battery backup with inbuilt battery charger should be provided. Patient control panel comes with back rest up down, knee rest up-down, Auto contour, hi-low position controlled Through noiseless electro mechanical actuators operated by soft touch. The panel should have under bed light to detect the	of 135kg. The unit should work on power input of 230v +/- 15% and 50-60 HZ as appropriate fitted with Indian plug. All the MS parts should be treated with nine tank pre-treatment procedure with zinc phosphate and powder coated with antimicrobial and thermosetting epoxy polyester to control the bacterial growth. Bed should be provided with telescopic infusion pole. This SS 304 made infusion pole should have broader base to mount infusion pump on it. The bed should be provided with 40 density 100 mm thick PU foam mattress which should be covered by heavy helium material which is water proof, flame retardant, vapour & X-ray permeable. The zip & stiches for the mattress cover should be concealed. The bed should compliant with IEC 60602-52 standards and compliant with current protection level of class 1 and shock protection level of Class B. All the electrical parts should have the liquid ingress protection as per IPX4. Alll the functions should be operated through noiseless electro mechanical actuators (German make). The bed should have CE certification from any European agency , the manufacturer should have ISO 13485:2016 certification from any notifying agency and USFDA registration.

floor at night.	
Technical Specification Vol-III, Hospital Furniture, BOQ Item No.03 Examination Couch : Overall Sizes (L)1957mm X (W)625 mm X (H)808. It has gas-lift assisted head rest with continuous adjustment from 0° to 30°.The design focuses on ease of operation, hygiene, doctor and patient ergonomics, and aesthetics. Homogeneous soft forms with rounded edges evoke feeling of comfort and safety. Lying surface overall dimension 625 mm x 65 mm, Mattress and Upholstery is to be made with PU moulded foam with density 50-55, 23 mm thick. Mattress is to be projecting out from the under structure to provide soft touch from all sides. Seamless upholstery is to be provided to avoid spread of bacteria Head rest overall dimension is 625 mm x 497 mm made of PU moulded foam with 50 -55 density and 23 mm thick. Under structure is to be made of MS square tubes with unique styling that provides better strength and stability. It is to be provided to reduce the visual clutter and offers better access and reach. BP Apparatus tray: CRCA sheet construction with SS handle and SS hinge Dia 10 for handle. Sheet thickness 1.2 ,0.8 and 0.6. swivel tray is to be designed for BP Apparatus that should be concealed when not in use SS Handle: SS 202 Dia 10 - Aesthetically designed handles are placed in such a way that to give a unique look also provide wider space for griping to users. Ergonomics: Increased width of the table (625mm) to give better comfort for patients. Optimized height (808mm) of the table for comfortable observation and reach. Tapered shape is to be provided to give a unique look and better access for doctor. L-shape leg is to be provided for better stability. Single Step stool is to be made of ERW square tube. Textured and Rubber mat	Technical Specification Vol-III, Hospital Furniture, BOQ Item No.03 Examination Couch : Overall dimension 1975 mm (L) x 560 mm (W) x 805 mm (H). Examination couch with three drawers with three cabinets, inbuilt step stool and BP tray holder. The base frame should made of 30 mm x 30 mm X 1.6 thick ERW tube. The cabinets should made of 1 mm thick CRCA sheet with recessed plastic handles and with lock and plastic door latch. the hinges of the cabinet should be made of sheet metal and pin arrangement. The internal dimension of the two side cabinets should be 422 mm (W) x 455 mm (D) x 540 mm (H). the internal dimension of the central cabinet should be 422 mm (W) x 455 mm (D) x 358 mm (H). The storage cabinet unit should be mount tubular base frame. The head rest should be adjustable on gas spring which should be actuated with C shaped handle lever . The drawers should made of 1 mm thick CRCA sheet with recessed plastic handles and work on double extension ball slides for smooth glide. the internal dimension of the drawer should be 330 mm (W) x 427 mm (D) x 92 mm (H) The mattress platform should be 65 mm thick which is made of 12 mm thick ply and PU foam and covered with leatherite cover. the cover should be water resistant, fire retardant, anti- microbial . the cover should have in-vitro cytotoxicity test report from reputed test lab. the end of the top mattress surface should be tapered end edge for ergonomic benefit. There should be ss304 made tissue roll holder present on the lower side of the back rest. There should be 1 mm thick CRCA made step stool with leveler with double extension ball slide for smooth operation. There should be 1 mm thick CRCA made BP apparatus holder which should be adjustable in height on a SS made height adjustable rod. Total load bearing capacity should be 135 kg.The examination couch should be provided with six numbers levelers made of metal & plastic for adjustment on the uneven floor. All the metal parts should be pre treated and powder coated with epoxy polyester powder coating. The

is to be provided, of 20mm X 20mm size. Tube 1.2 mm thick and mat 3.0 mm thick Size:485(L) x 335 (W) X 210 (H) Step stool is to be made of MS square tubes, is to be strong and firm. Top is to be made of textured rubber offering firm grip for climbing There should be a ss 304 ERW tube of 12.7 mm dia and 1.2mm thick is to be provided at the back of the back rest section to mount tissue roll which should be used as tissue roll holder. Powder coating is to be Bacteriostatic and thermosetting epoxy polyester, formulated to fulfil the requirements for bacterial protection. Maximum patient load is to be 135 kg. Head Rest is to be adjustable 0 - 30°.BP Apparatus tray is to be provided to Swivel angle 0 to 180 deg. Approx. To ensure qood quality welding " Co2 Argon" process should be adhered to. All metal components should be pre treated with zinc phosphate in 9 tank process and then powder coated with anti microbial epoxy polyester powder coating to fulfil the requirements for bacterial protection. goods should be supplied in knocked down construction to reduce carbon emission. proof loading test , cycle tests , impact test. The manufacturer should compliant with ISO 9001, 14001, OHSAS 1800 and CE certification.	examination couch should have CE certification from any European agency , the manufacturer should have ISO 13485:2016 certification from any notifying agency.
Technical Specification Vol-III, Hospital Furniture, BOQ Item No.05 Mechanical Fowler Bed: Dimension Overall dimension: (L) 2265 x (W) 900 x (H) 610mmTwo function bed with adjustable backrest 70deg & upper leg rest 24degHead board and foot board having curved profile at the top made of MS ERW round tubes of thickness 1.6mm & dia 31.75 mm..Head board and leg board is further strengthened by 3 vertical pipes each of thickness 1.2 mm and dia of 19mm & 1 each Horizontal pipe of thickness 1.2mm and dia of 25.4mm. The head and leg board should	Technical Specification Vol-III, Hospital Furniture, BOQ Item No.05 Mechanical Fowler Bed: Under Structure should have a high diameter tube which should provide a sturdy Lead Screw: Thread Rolled En8 Lead Screw, with ACME threads and 6mm pitch should give good strength, with ease of operation. Snap locking Handle lever of PPCO with handle body keep it in folding position when not in use. Head & Foot board should be made of blow molded Poly propylene with anti-microbial additives . Head board and foot board should be with metal inserts to mound it on bed frame. Removable PP head board and foot board should have cut outs , for better gripping. No option of

have 4 nos mosquioto pole holder.bed frame should be made of MS ERW rectangular section tube of size 30mmx60mm of 1.6mm thick & has provision for 4 iv pole holders. It is strengthened by rectangular pipe section of size 60mmx30 mm having 1.6 mm thickness Lying surface should be made of CRCA sheet of thickness of 1mm thick . This lying surface should have 4 sections for bed profiling i.e. back adjustment, fixed pelvic section, upper and lower leg adjustment. Lower leg rest section is provided with Ratchet for leg rest adjustment. Mattress platform is strengthened by tubular frame of size 25.4mm dia x 1.6mm thickness. It should be strengthened by trapezoidal contour (rounded corner) 14 nos, embossed cut out. All metal components should be pre treated with zinc phosphating and then powder coated with anti microbial epoxy polyester powder coating. The backrest and leg rest should be operated with the help of lead screws and crank mechanism. Lead screws should be made from EN8 and ACME threads with roll formed. All the functions should operated with the help of 2 ergonomically dedicated handles, which are made of metal inserted PP co polymer , it's lever should be snap locked when not in use. All the handles should be provided operating guidence stickers There should be High endurance, metal castors of 125mm wheel dia having provision for diagonal locking system.The bed should have urine bag holder on bothside of the bed.To ensure qood quality welding " Co2 Argon" process should be adhered to. All metal components should be pre treated with zinc phosphating in 9 tank porcess and then powder coated with anti microbial epoxy polyster powder coating to fulfill the requirements for bacterial protection against at least 2 commonly found bacteria in Hospital environment [Gram positive and Gram Negative].goods should be supplied in	mosquito pole holder. Lying surface area should be 1 mm thick, made of CRCA/MS consists of mattress retainer to define the position of the mattress. 125mm wheel dia, with PU tread synthetic body castor, non marking castors. Out of 4 castors two should be provided with break, mounted at diagonally opposite position All metal components should be pre treated with zinc phosphating in 7 tank process and then powder coated with anti microbial epoxy polyester powder coating . 1. All powder coated parts in RAL white. 2. Other plastic parts in Pantone Cool Grey 8C. 3. User instruction stickers in Pantone Cool Grey 8C. Maximum patient load should be 135 kg. Backrest Elevation 70°±2. Knee Rest Elevation 24°±2 goods should be supplied in knocked down construction to reduce carbon emission. IV pole: Bed should be provided with ss made telescopic saline stand with 2 nos ss 304 made hooks for holding saline bags. The bed should have urine bag holder on both side of the bed. To ensure good quality welding " Co2 Argon" process should be adhered to. Goods should be supplied in knocked down construction to reduce carbon emission. In house testing facility should be available like for proof loading test , cycle tests , impact test, horizontal & vertical load tests for side rails, salt spray test, castor break test, pull test for head and foot board. The bed should be provided with mattress made of 40 density PU foam. The mattress should have high end heavy helium cover which is water resistant, x ray permeable, fire retardant." The bed should have CE certification from any European agency , the manufacturer should have ISO 13485:2016 certification from any notifying agency and USFDA registration.

knocked down construction to reduce carbon emission. Inhouse testing facility should be available like for proof loading test , cycle tests , impact test, horizontal & vertical load tests for side rails, salt spray test, castor break test, pull test for head and foot board. The bed should be provided with 40 density 100 mm thick PU foam mattress which should be covered by heavy helium material which is water proof, flame retardant, vapour & X-ray permeable. The zip & stiches for the mattress cover should be concealed. The mattress foam and cover to be divided in 4 sections	
Technical Specification Vol-III, Hospital Furniture, BOQ Item No.06 Bed Side Locker Overall dimension of the locker should be 490(l) x 410 (w) x 941(h) (all in mm) Top should be made of ABS cover & should have minimum thickness of 2.2mm. Top should have recessed and contoured shaped for better usability. Plastic molded knob should be provided on the drawers and Cabinet for easy opening. 50mm dia plastic molded castor placed infront. Cabinet and drawer should be made of CRCA sheet of thickness 0.8mm. Cabinet should be provided with lock. Telescopic ball slides should be used for easy smooth operation of the drawer. Corner tubes should be made of MS ERW tubes of dia 25.4 mm x 1.2mm. Locker should be Anti microbial and thermosettinh epoxy polyester powder coated for bacterial protection	Technical Specification Vol-III, Hospital Furniture, BOQ Item No.06 Bed Side Locker overall dimensions should be 400W x 420 D x 840mm H The Locker should have one drawer unit and one cabinet unit fitted with Cam lock. Gap should be provided between the drawer and Cabinet unit for storage The locker top should be of 0.8mm thick SS 304 Grade sheet . The SS sheet should be finished in buff-matt finish The top should have raised border of 10mm height on three sides Drawer should made 1 mm thick CRCA sheet . It should be fitted ball slides for smooth drawer movement. It should be provided with recess to serve as handle. It should be fitted with lock Cabinet should made 1 mm thick CRCA sheet . It should be fitted with hinge door and lock. The door should have louvers for ventilation. It should be provided with recess to serve as handle. Back of the locker should be provided with vertical spacer made of nylon it should have uniformly distributed total load bearing capacity of 20 kg. To ensure good quality welding " Co2 Argon" process should be adhered to. All metal components should be pre treated with zinc phosphating in 7 tank process and then powder coated with anti microbial epoxy polyester powder coating to fulfill the requirements for bacterial protection. .goods should be supplied in knocked down construction to reduce carbon emission. proof loading test , cycle tests , impact test, horizontal & vertical load tests for side rails, salt spray test, castor break test, pull test for

	head and foot board. The manufacturer should compliant with ISO 9001, 14001, OHSAS 1800 and CE certification, ISO 13485 : 2016
Technical Specification Vol-III, Hospital Furniture, BOQ Item No.07 Over Bed Table Overall Sizes(L)899 mm X (W)555 mm X (H) Adjustable from 970 mm to 1170 mm OBT should be a height adjustable Over Bed Table. Table top Height can be adjusted with the help of operating lever and with help of plastic gear which is smooth and noise less. Base frame should be made of ERW Round Tubes and Oval Tubes Housing should be made of ERW Round Tubes Operating lever Handle : Plastic injection molded lever handle with SS rod insert making strong and provides the wider area for the grip Telescopic column with lead screw on Crank for smooth height adjustment of table top height. Table top frame should be made of MS tube 1.2 mm thickness, should be designed to hold the top as well as extension works as a handle for the handling of over bed table. Top: MDF top with membrane press , should give anti scratch Property with good surface finish. Also Glass Holder profiling should be provided on to it. Castors: High endurance anti-static, Plastic injection moulded castors are provided of Ø50mmPowder coating should be Bacteriostatic and thermosetting epoxy polyester, formulated to fulfill the requirements for bacterial protection. All powder coated parts in RAL white. Plastic parts in Grey Max Safe Working Load: 20 kg UDL The manufacturer should compliant with ISO 9001, 14001, 13485 & OHSAS 1800 and CE certification. goods should be supplied in knocked down construction to reduce carbon emission.	Technical Specification Vol-III, Hospital Furniture, BOQ Item No.07 Over Bed Table (L)896 mm X (W)395 mm X (H) Adjustable from 801 mm to 1077 mm OBT should be a height adjustable Over Bed Table. Table top Height can be adjusted with the help of operating lever which activates the gas spring. Base frame should be made of ERW round tube with 50.8 mm dia and 1.6 mm thickness. Housing should be made of aluminum extruded inner and outer tubes. Handle for gas spring made of MS sheet metal of section 74 mm x 115 mm with 3 mm thick Handle with CRCA material making strong lever and providing wider area for grip. Gas spring of length 835 mm and stroke of 293 mm Smooth functioning gas spring with adjustable height and consistent motion during operation. Effort to push downward = 14.5(-2kg) at room temp 29°C Plain top made of membrane pressed MDF with section 395 mm x 896 mm of 18 mm thickness. Membrane pressed MDF board of frosty white shade on top surface and with edge lippin. Top: MDF top with membrane press , should give anti scratch Property with good surface finish. Also Glass Holder profiling should be provided on to it. Castors: High endurance anti-static, Plastic injection molded castors are provided of Ø50mmPowder coating should be Bacteriostatic and thermosetting epoxy polyester, formulated to fulfill the requirements for bacterial protection..Max Safe Working Load: 20 kg UDL The manufacturer should compliant with ISO 9001, 14001, 13485: 2016 & OHSAS 1800 and CE certification. goods should be supplied in knocked down construction to reduce carbon emission.
Technical Specification Vol-III, Hospital Furniture, BOQ Item No. 13 Emergency Recovery Trolley Dimension : L 2100 to L2200 X W (900)mm to W1000mm X (H) Adjustable from 700mm to 1080 mm	Technical Specification Vol-III, Hospital Furniture, BOQ Item No. 13 Emergency Recovery Trolley Dimension : L 2100 to L2200 X W 834 mm X (H) Adjustable from 700mm to 1080 mm