HSCC/CNCI/Office-Hostel & Hospt/Fur/2019 Dated: 27.02.2019

AMENDMENT NO. –IV

All Bidders.

Project Name: "Supply, installation, testing & commissioning of Office, Hospital, Director block, Doctor Residence, Night Shelter, Nursing Hostel & Senior Hostel furniture and other associated works like minor civil, electrical, PHE works etc. and their maintenance during defect liability period at CNCI, Kolkata (West Bengal)**."**

Tender No: HSCC/CNCI/Office-Hostel & Hospt/Fur/2019, Dated: 31.01.2019

This has reference to the subject works.

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

1. Clarifications of bidder queries 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

Annexure-I

S. No.	Existing Clause	Amended Clause
1	Technical Specification Vol-III, BOQ, Item No. 02- Almirah Specification:- Storwel plain shall have an overall size of 916mm(W)x486mm(D)x1980mm(H) with welded construction. It should have the shelf thickness of 0.7 mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA 'D' grade high yield strength as per IS:513. The Storwel Plain should have a Mazak handle and Three way locking mechanism with Shooting Bolts. It should have a height wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It should also have a M10 Screw type Leveller with Hex plastic base. The finishing shall include Epoxy powder coated to the thickness of 50 microns (+/- 10). Plenty of colour options and shelving options shall be available.	Technical Specification Vol-III, BOQ, Item No. 02- Almirah Revised Specification:- Store wel with 4 shelves shall have an overall size of 900mm(W)x450mm(D)x1830mm(H) . The construction shall be rigid knock down construction and Material used shall be prime quality CRCA steel - panels from 0.6 mm thick & front frame . Shelf shall be 0.8 mm thick .Configuration (Door) shall be full height steel hinged door . Locking shall be Plastic Recessed Handle cum Cam lock with 3 way locking mechanism with shooting bolt arrangement . Height wise adjustable shelf mounting , Uniformly distributed load capacity per each full shelf shall be 80 Kg maximum . For Plain 4 Nos. of adjustable full shelves . The top shall be metal and Epoxy Powder coated finish to the thickness of 50 microns .
2.	Technical Specification Vol-III, BOQ, Item No.21- Mid Back Chair. Specification:- The seat is made up of 1.4 ± 0.1 cm thick hot - press4 plywood upholstered with fabric and moulded polyurethane foam. It has a seat depth adjustment of 5.0 ±0.3 cm integrated in the seat through a sliding mechanism. SEAT SIZE: 50.0 cm (W)x 49.0 cm(D) The Back is injection moulded in Glass filled Polyamide which is upholstered with Mesh fabric. The back consist of adjustable Lumbar support made of injection moulded Polypropylene having an adjustment of 6.0 ±0.1 cm. BACK SIZE: 50.0 cm(W) x 68.0 cm(H). The polyurethane foam for seat is of density = 55 ± 5kg/m3.It is made of glass filled Polyamide arm structure with PU arm top and height adjustment of 7.0 ±0.5cm.The arm top has swivel and To-Fro movements. The To-Fro movement is 6.0 ± 0.5cm.The inner tube of armrest is chrome plated. The mechanism is designed with the following features:• 360° revolving type.•	Technical Specification Vol-III, BOQ, Item No.21- Mid Back Chair. Revised Specification:- Seat/Back Assembly : The seat is made up of 1.2 ±0.1 cm thick. Hot pressed plywood upholstered with fabric moulded polyurethane foam. The back is a fabricated tubular frame assembly powder coated (DFT 40-60 microns) and upholstered using Net fabric with high tenacity yarn. The tubular back structure is made of dia. 1.6±0.02. x 0.16 ±0.015cm thick. MS ERW tube welded to a spine structure made of 3.5± 0.03 cm x 1.5±0.02cm x 0.2 ± 0.018cm thick elliptical tube and bracket made of 0.6 ± 0.05cm thick HR steel. Lumbar support Assembly: the back assembly consist of a height adjustable cushioned lumbar support pad which can be adjusted by 6.0 ±0.5cm in height (7 positions)High resilience (HR) polyurethane foam : The HR polyurethane foam is moulded

	Centre tilt syncro• 3 position (including upright lock) giving option of variable tilt angle to the chair with anti shock feature. The pneumatic height adjustment is chrome plated with an adjustment stroke of 9.0 ± 0.3cm.The pedestal is High Pressure Die cast polished Aluminum and fitted with 5 nos. twin wheel castors. The pedestal is 65.0 ±0.5 cm P.C.D. The twin wheel castors are injection moulded in black Glass filled polyamide having 6.0± 0.1cm wheel Diameter. The Chrome plated tubular frame is made of Dia 2.8±0.03 cm x0.2±0.02 cm thick M.S. Round tube. The frame is fitted with plastic caps made of injection moulded glass filled Polypropylene.	with density= 45± 2 kgm^3 and back hardness load 12 ± 2 kgf and seat hardness load 16 ± 2 as per IS : 7888 for 25% compression. Spine Cap: the spine cap is made up of polyurethane which covers the back frame and spine junction. Armrest(adjustable) : The armrest have Up- down adjustment-8.0±0.5cm (8 positions) which is provided in armrest structure. Armrest top is made up of PU with metal insert fitted on the armrest structure. Front pivot synchro mechanism: The adjustable tilting mechanism is designed with the following features :360° revolving type. Front- pivot for tilt with feet resting in ground and continues lumbar support ensuring more comfort. Side tilt tension adjustment can be operating in seating position.5-position tile limiter giving option of variation tilt angel to chair. Seat/back tilting ratio of 1:2 .Pneumatic Height Adjustment: The pneumatic height adjustment has an adjustment of 10.0 ± 0.3cm .Pedestal Assembly: the pedestal is injection moulded in black 30 % glass filled nylon and fitted with 5 nos. Twin wheel castors. The pedestal is 66.1±0.5cm pitch-center dia (76.1±1.0cm with castors).Twin wheel castors : the twin wheel castors are injection moulded in black polypropylene.
3.	Technical Specification Vol-III, Hospital Furniture, BOQ Item No. 02 (Semi motorised Bed with Mattress) Overall dimensions: (L)2272 mm X (W)1048 mm X (H) Adjustable from 470mm to 750mm.5 function mechanically operated bed viz. Hi-Lo, Trend/ Reverse trend, Backrest and Knee rest and lower knee rest. Min ht: 460 mm; Max ht: 760 mm Back rest angular movement: 70 deg; Knee rest angular movement: 24 deg. Trendlenburg 10 degree and Reverse trendlenburg 8 degree Safe working load: 230 kgs Patient load bearing capacity: 135 kgs.All edges in contact with patient to be rounded safely. 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	Technical Specification Vol-III, Hospital Furniture, BOQ, Item No. 02 2-function motorized bed – back and ht on actuator, Trendelenburg-Anti Trendelenburg & leg rest on crank, Bed with ms side rail) Five function ICU bed should have height, Back rest controlled through noise less electro mechanical 2 nos actuators operated by soft touch control panel (handset). Trendelenburg & Reverse Trendelenburg mechanism and leg rest are made of linkages which are made by HR MS flat of size 40mmW x 10mm thick. This mechanism should be operated with the help of lead screws and crank. Lead screws should be made from EN8 and ACME threads roll formed. It should be functioning on the basis

	better gripping. The boards should have provision to paste colour stickers. The stickers should made of PP material and pasted with 3M adhesive bed frame should be made of MS ERW oval shaped tube of size 30mmx60mm of 1.6mm thick. . All corners of bed frame are provided with bumper mounting holders and it should have provision 4 iv pole holders & 2 patient lifting 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 1.2mm thick . This lying surface should have 4 sections for bed profiling i.e. back adjustment, fixed pelvic section, upper and lower leg adjustment. Mattress platform is provided with 5 nos mattress retainers. 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 polyster powder coating. Bed mechanisim is made of linkages which are made by HR MS flat of size 40mmW x 10mm thick. This mechanism should be operated with the help of lead screws and crank. Lead screws should be made from EN8 and ACME threads roll formed. It should be functioning on the basis of Synchornised Linear Roller Mechanism(SLRM). SLRM is assisted by tension spring covered with telescopic tube with plastic end gaps. All 4 functions are operated with the help of 4 ergonomically dedicated handles, which are made of metal inserted PP co polymer , it should be snap locked when not in use. All the four handles should be provided operating guidence stickers 4 Neoprene rotating bumpers of dia 92mm height 69mm with 40-50 shore hardness are provided at four corners to protect the bed and patient from impact and avoid damages to wall Plastic 125mm wheel dia, with PU tread synthetic body castor, non marking TENTE make castors. Out of 4 castors two should be provided with toe break, mounted at diagonally opposite position Ergonomically designed plastic handles having outward locking mechanism in 90 deg position. Handle levers fold	of Synchronised Linear Roller Mechanism (SLRM). SLRM should be assisted by tension spring covered with telescopic tube with plastic end gaps. The function should be operated with the help of ergonomically designed dedicated handle, made of metal inserted PP co polymer; it should be snap locked when not in use. All the four handles should be provided operating guidance stickers Overall Size : L 2312 X W (900) mm to W1060mm X (H) Adjustable from 490mm to 770 mm. Back rest angular movement 70 deg, knee rest 25 deg, TR 10 deg and ATR 8 deg. Safe working load should be 200 kgs. Bed frame should be made of MS ERW oval shaped tube of size 30mmx60mm of 1.6mm thick. . All corners of bed frame to be provided with bumper mounting holders and it should have provision 4 iv pole holders & 2 patient lifting pole holders. To be 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 1.2mm thick. This lying surface should have 4 sections for bed profiling i.e. back adjustment, fixed pelvic section, upper and lower leg adjustment. Mattress platform to be provided with 5 nos mattress retainers. Lower leg rest section should be provided with Ratchet for leg rest adjustment. Mattress platform must be strengthened by tubular frame of size 25.4mm dia x 1.6mm thickness. It should be strengthened by trapezoidal contour (rounded corner) , embossed cut out. All metal components should be pre- treated with zinc phosphate and then powder coated with anti- microbial epoxy polyester powder coating. Head & Foot board should be made of blow moulded 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 out, for better gripping. The boards should have provision to paste colour stickers. The stickers should make of PP material and

	compactly upwards with snap fit when not in use. Handles are self locking with a brass insert and a chrome plated knob with a Nylon grip Bed frame should be made of MS ERW oval shaped tube of size 30mmx60mm of 1.6mm thick. It should be strengthned by two cross member tubes of dia 35x3mm thick. Base frame should have ground clearance of 165mm to avoid any obstruction during bed movement. base frame's foot print should inside the bed frame for ease of access to medical professionals. Base frame should have provison to mount oxygen cyclinder cage. It should have trendlenburg indicator guide The bed should be provided with one pair Side rails pull to turn down collapsable type. Side rails should be made of MS ERW tube having 25.4mm dia and 1.6 mm thick. The side rails should get locked when raised. The knob should be made out of Injection molded Nylon for ease of operation. The locking of side rail pin should be fitted with SS liner to prevent rusting and wear and tear. Side rail joints should have plastic bushes and couplings The bed should have urine bag holder on both side 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 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 compilant with ISO 9001, 14001, OHSAS 1800 and CE certification.	pasted with 3M adhesive. The bed should be provided with one pair Side rails pull to turn down collapsible type. Side rails should be made of MS ERW tube having 25.4mm dia and 1.6 mm thick. The side rails should get locked when raised. The knob should be made out of Injection moulded Nylon for ease of operation. The locking of side rail pin should be fitted with SS liner to prevent rusting and wear and tear. Side rail joints should have plastic bushes and couplings. The trolley should be provided with high end 125 mm non marking Steinco castors which should be lockable diagonally. There should infusion pole holder with ht adjustable ss made telescopic infusion pole with two hooks to mount saline bags. The fixed pole should be 31.75 dia and the adjustable pole should be 16 mm dia with 1.6 mm thick. The bed should be provided with 8 mm diams urine bag holder on both the side. The bed should have 4 nos Neoprene made bumpers for Excellent Shock absorbing property. There should be two nos of glass filled Nylon made CPR lever given to at the both side of the bed to make quick release of the back rest. 29. The unit should work on 230v +/- 15%, with 30 time battery back up after fully charged. All the electronic devices should be as per IP X4 rating and class 1 type. 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. The welding should be done by co2argon welding and there should be Synerji coat on the welded areas to minimise early rusting. Suitable Mattress should be provided (along with suitable size 100% cotton bedsheet) which is dived into four single section100 mm mattress and made of 40 density pu foam. The mattress should have high end heavy hellium cover which is water resistant, x ray permeable, fire retardant."

All other specification remain same.