

**MINISTRY OF HEALTH & FAMILY WELFARE,
GOVERNMENT OF INDIA
(Department of AYUSH)**

Tender

For

Package-III :

Supply, installation, testing & commissioning of Hospital Furniture works & other associated works including other miscellaneous works like minor civil, electrical, PHE works etc. for All India Institute of Ayurveda (AIIA), Sarita Vihar, New Delhi

**Volume-III
Technical Specifications**

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**HSCC (INDIA) LTD.
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LABORATORIES)**

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TECHNICAL SPECIFICATION FOR FURNITURE/FURNISHINGS FOR

Package-III: Supply, installation, testing & commissioning of Hospital Furniture works & other associated works like minor civil, electrical, PHE works etc. for All India Institute of Ayurveda (AIIA), Sarita Vihar, New Delhi”.

1. Fowler`s Bed with Mattress

- Bed Size
- 204 – 206 (L) x 90 – 92 (W) x 54 – 56 (H) cms ,
- Mechanically operated 4 section, through crank mechanism, collapsible handle permanently attached to the screw.
- Top CRMS perforated 16 gauge.
- Smooth crank mechanism at the foot and panel to obtain head rise upto 80oC and knee fold upto 35oC.
- Frame Tubular rectangular frame, U/H shaped less on four 125cms swivel castors (nylon/rubber) two with brakes
Head and legs SS bows with laminated panels
Corner buffers and mattress guards, four locations of drip rod.
- Mattress 10cms covered with stain proof foam leather.
- Pretreated and powder coated – 50 micron.
- Spare two wheels, one with a brake, a set of corner rubbers (4), two IV rods.
- In house quality test certificate to be provided with each bed.

2. Semi Fowler Beds with Mattress

- Bed Size
- 204 – 206 (L) x 90 – 92 (W) x 54 – 56 (H) cms
- Two section operated smoothly through crank mechanism at the foot, collapsible handle permanently attached to the screw.
- Frame Tubular rectangular, supported on four legs, U/H shaped legs, fitted with four 12.5cms swivel coolers, two with brakes, to be provided with mattress guards and four locations for IV
- Detachable foot, head & SS bows with laminated panels.
- Pretreated and epoxy coated.
- Spare two castors, one with a brake and two IV rods.
- In house quality test certificate to be provided with each bed.

3. Recovery Beds with Mattress

- Bed size 204 – 206 (L) x 90 – 92 (W) x 54 – 56 (H)cms
- Two section with perforated CRMS sheet 16 gauge.
- Mechanically operated through a crane mechanism at foot. Collapsible handle permanently attached to the screw.
- Head should be raisable upto 80oC.

- Spare should be pneumatic. Spring mechanism for immediate raise for trendelenburg and reversed trendelenburg position.
- Frame ERW rectangular tubular with H/U shaped legs. Frame will be provided with four castors of 12.5cms (nylon/rubber). Two castors with a brake.
- Detachable head and foot SS bows with laminated panel.
- Side droppable safely guard rails.
- Four location for dip rod.
- Mattress should be covered with stain free foam leather of good quality.
- Preheated and epoxy coated 50 micron.
- Spare – two castors (one with brake) and two saline rods.
- In house quality test certificate to be provided with each bed.

4. Ortho Bed

Hospital bed , uniformly perforated CRCA sheet top , in four sections. Provided with 304 grade stainless steel tubular removable laminated head and foot panels, Duke -type collapsible side rails. Trolley type base on four 12.5cms castors, two with brakes. Mechanically operated head raise , knee raise , trendelenburg & reverse position and height adjustments provided with independent collapsible handles permanently attached to all the position screws. The height adjustment screw mechanism should be assisted with a gas spring to ease the movement. All M.S. welding must be with MIG welding technology and all SS welding should be TIG welding technology. Provided , corner rotating buffers, Mattress guards and SS IV Rod.

- **Bed Top (Four sectional)**

Mild steel perforated sheet of approx 16G (1.2mm) & rectangular pipe with size approx. 50mm x 30mm x 16G(1.6mm)

- **Base (Trolley type)**

Mild steel rectangular pipe of approx 50mm x 30mm x 16G (1.6mm)

- **Bed panels (Removable)**

Stainless steel pipe AISI 304 Grade of 31.75mm O x 18G

- **Bed collapsible side Railing, Duck type (1 pair)**

Mild steel round pipe of mainly 25.4mm O x 16G (Powder coated)

5. Provided with – over head traction frame

- **Bryant Traction**

Application for thighbone fracture of below 6 year old child or innate joint dislocation of hipbone

- **90o – 90o traction**

Application for thighbone fracture of 2 – 10 year old patient

- **Over head traction**

Application for humerus fracture

- **Suspension Traction**

Application for limbs smash fracture and thigh rotor bone fracture

- **Buks`s Traction**

Application for thighbone fracture or after THR operation

- **Skeletal Traction**

Application for legs fracture or pelvis ectopia

All M.S> material should be fully pre – treated chemically with in-house pre-treatment plant, with under coating of zinc phosphate and coated with polyester epoxy powder with a thickness of minimum 50 microns and oven baked at 180- 200 centigrade to provide good finish, resistant to chipping and scratching.

In house quality test certificate for the product must be provided with each bed.

6. **Hi – Lo ICU Bed S.S. with mattress**

The general requirement shall be as per IS – 9395-1979

Frame: Main frame work and chariot base framework of rectangular S.S tubular argon are welded construction , bows of round S.S tubular construction.

Top : Four section top made from uniformly perforated S.S. sheet (16 gauge) 04 Cr 18 Ni 10 Or 07 Cr Ni9 as per IS- 6911- 1972. Head raise knee rest Trendelenburg and reverse Trendelenburg position maneuvered by smooth crank. Height adjustment to facilitate close observation by medical staff and convenient transfer of patient from bed to trolley & vice versa. Height adjustment achieved with ease on remote control mechanism. Detachable stainless steel ahead and legs bows fitted with laminated panels. Detachable full length stainless steel collapsible side railing & rubber buffers to absorb shock. Stainless steel telescopic saline rod with four locations.

Castors: 12.5cms (Rubber/Nylon) swiveling type castors fitted to the chariot base , two castors to have brake for locking.

Dimension: Overall length 2250mm suitable for mattress of 2010mm length. Overall width 1015mm suitable for 100mm thick mattress width of 910mm. sleeping level adjustable between 620mm and 820mm.

Material: S.S. sheet – 4 sectional top of 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 designation as per IS- 6911-1972

7. Resuscitation Trolley (Hydraulic)

Overall Size approx 210(L) x 67(W) x 65/85(H) cm. Stretcher size approx 182(L) x 5656(W) cm.

Tubular trolley with a smooth foot operated hydraulic pump with T pedal for height adjustment. The hydraulic pumps should be a leak proof pumps made in Europe.

Smooth gas spring mechanism to obtain trendelenburg and reverse trendelenburg position.

Head raise on ratchet mechanism.

Two sectional X-Ray permeable top with head raise on ratched.

The trolley should be mobile on four good quality castors of approx. 12.5cm swivel castors, two with brake.

Should be provided with cylinder cage, utility tray, EPC I.V. Rod and EPC side safety rails, corner rotating buffers Two location for I.V. Rod.

Should be provided with mattress of 25mm thick foam, covered with stain proof material.

Powder epoxy finish.

8. Swab Rack (OT)

- Rack should be made up of tubular frame of 25.4mm x 18SWG 304 grade S.S. tube on four 50mm dial. Antistatic swiveling castors fitted with S.S. rod containing spikes on S.S. drip trays at the bottom.
- It is used in operation theatre to keep sterilized gauze on separate spikes, so as keep track of gauze count, used during surgery.
- The above product should conform to application ISI standard in respect of materials, welding process, test & performance. Conforming to BIS standard or equivalent.

9. Rectangular Tubes (S.S.)

- For outer frame 60 x 30 x 16g thickness and horizontal transverse member 19 x 38 x 16g Backrest horizontal and knee rest horizontal member of 50 x 25 x 16g for chariot frame base of 60 x 25 x 16g.

10. Round tubes (S.S.)

- For bow outer member 31.7 dia x 18g S.S. tubes of 304 quality. Screw mechanism of 31.75 dia x 18g and 38mm dia x 18g S.S. tubes chariot base castor receipt tube of 31.75 dia x 9 Backrest and leg rest of 25.4mm x 18g tube.

Performance test under a load of 200gs

Test: it shall be as per IS- 4033-1068-6.1.2 & 6.1.2 & 8 of IS-9395-1979

Observation: No plastic deformation takes place i.e bed to come back to its original height within (+) 5mm tolerance.

Finish: In good quality durable rust free finish

Marking: As per 11 of IS- 9395-1979

11. Instrument cabinet with locking facility

- Length (1676 ± 10mm), width (914mm ± 10mm), breadth 456mm ± 10mm). fabricated using 18 SWG M.S Sheet for back and side cover Front cover of 18 SWG M.S sheet.
- Front door is fitted with glass panel of 4mm thick with locking facility and should have 4 nos. of glass shelves 10mm thick. The cabinet should be rested on an antirust base. Epoxy powder coating with white color with 50 microns.
- The above product should be conform to applicable ISI standard in respect of materials, welding process, test & performance. Confirming to BIS 6877 standard or equivalent.

12. Two Tire Boot Stand

Frame: frame work of welding tubular construction.

Top : Top CRCA 18G sheet. Aluminum top tread plates, with a similar second shelf.

Shoes: Legs fitted with rubber shoes durable quality (free for 1 year use)

Dimension: Step Size approx. 1200mm(L) 300mm(W)and overall height 450mm.

Material: Vertical tube of ERW 18G support rod of 9.8mm and top of CRCA 18G sheet.

Finish: pretreated and powder coated in 60 microns thickness.

13. Anaesthetist Chair

Frame: MS. Flat for seat & backrest. Powder coated.

Back & Seat: Cushioned approx. size: seat 38 x 38cm. Ht. 51/73cm (screw adj.) height adjustable

Base: five fringed base mounted on 50mm dia swiveling castors.

14. Bedside locker (S.S.)

The bed locker shall be generally conform to IS-4266-1967, subject to the following specification.

Frame: It shall be according to 2.1 of IS-4033-1968. Body of sheet metal welded construction . Locker made from mechanic pressed CRCA sheet locker box with door and lock.

Top : shell be according to 2.2 (a) & 22 (b) of IS-4033-1968. High impact, enclosed on three side , having one box & one drawer plastic top with raised edges on three sides. Super imposed S.S. top 04 Cr18 NI 10 Or 07 Cr 18 Ni 9 of IS-6911-1972.

Castors: Mounted on 2 ball type 50mm dia swiveling castors as per IS-4034-1979 and two stumps.

Shape &
Dimension: Overall length 405mm width 405mm height 810mm as per figure of IS-4266-1967.

Material: Body, door drawer & made of 20 GSM CRCA sheet and top made of 24 GSS sheet . superimposed on plywood top of 12mm thick.

Finish: As per 5 of IS-4033-1963 & for top light finish passivated.

15. Steel Stool (S.S. Top) – attendant

Frame: Welded sheet metal construction.

Top: Machine pressed 18G S.S. steel sheet top (04 Cr 18 Ni 10) or (07 Cr 18 Ni 9) of IS-6911-1972.

Shoes: Mounted on square rubber shoes.

Dimension: 300mm square shoes.

Material: Angle and channels 14G CRCA sheet.

Finish: Pretreated and powder coated 50 microns thickness.

Test: As per 6.1.2 of IS-4033-1068 & latest amendments issued if any.

Marking: According to 7 of IS-4033-1968 & latest amendments issued if any.

16. Bedside Screen (Three fold)

The general requirements shall be as per IS-4033-1968 as IS-4458-1967, subject to the following specifications.

Frame: 3 folds of screen in tubular welded construction with base.

Castors: Rolling-cum-swiveling castors (6nos.) 1979 as per IS-4034-1979

Shapes &

Dimension: Overall size: as per fig. 1 & 2 of IS 4458-1967, 1675mm h X 2440mm w X middle section width of 1220mm w and side width of 610mm W

Material used: ERW Std steel tubes of 19.05mm Od x 1.2mm thickness with 2 nos. base of 25.4mm Od x 1.22

Finish: Pretreated and powder coating 60 micron thickness with 2 nos. base 25.4mm Od x 1.22

Marking: As per IS- 4033-1968 & latest amendments issued if any.

17. Saline stand

- Adjustable from (1524mm) to (2438). Central stand 18 gauge ERW 1" (25mm) Sq. pipe 5winged base each wing having a length of (288mm ± 5mm). base of 2" x 1" (51x25mm) – 10 gauge rectangular tube on 3" (76mm) swiveling nylon castor wheel.
- A telescopic ½" (13mm) dia S.S. grade rod with double hooks. And a "T" type S.S. hook (Grip S.S.stud fitted in Bakelite knob for holding saline rod in position. Epoxy powder in grey colour with minimum 50 microns.
- The above product should conform to application ISI standard in respect of materials, welding process, test & performance. Conforming to BIS 5880 standard or equivalent.

18. Single Step Stool

The general requirements shall be as per IS-4033-1968

Frame: Frame work of welded tubular construction.

Top: Top CRCA 18G sheet. Aluminum top tread plates.

Shoes: Legs fitted with rubber shoes durable quality (free for 1 year use)

Dimension: Height 20 to 22cms. Step size about 500mm x 300mm W

Material: Vertical tube of ERW 18G support rod of 9.8mm and top of CRCA 18G sheet.

Finish: Pretreated and powder coated in 50 microns thickness.

Test: as per IS-4033-1068 & latest amendments issued if any.

Marking: As per IS-4033-1968 & latest amendments issued if any.

19. Double Steep Stool

The general requirements shall be as per IS-4033-1968

- Frame: Frame work of welded tubular construction.
- Top: Top CRCA 18G sheet. Aluminium top tread plates.
- Shoes: Legs fitted with rubber shoes durable quality (free for 1 year use)
- Dimension: Step size approx 510mm L x 300mm W and overall height 450mm for double step.
- Material: Vertical tube of ERW 18G support rod of 9.8mm and top of CRCA 18G sheet.
- Finish: Pretreated and powder coated in 50 to 60 microns thickness.
- Test: As per IS-4033-1068 & latest amendments issued if any.
- Marking: As per IS-4033-1968 & latest amendments issued if any.

20. Anaesthetist Trolley.

- Frame: Argon welded & S.S. tubular rust free construction.
- Castors: 8cm/7.5cm dia wheel type swiveling castors having antistatic tuber tread conforming to IS-4034-1979
- Shape &
Dimension: overleaf size 760mm L x 460mm W x 820mm H made of strong CR. ERW tubular steel frame with two S.S. shelves. Top shelf having two drawers underneath, is covered on three side with S.S. guard rails.
- Material Used: Vertical S.S. tubes of 25mm X 18G. longitudinal S.S. tubes of approx. 19mm x 18G. Railing of S.S. 10mm rod. Stainless steel top of 21G shelves conforming to 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 grade as per IS-6911-1972.
- Finish: Pretreated. Epoxy finished

21. Crash cart(S.S.)

- Frame: welded frame construction of stainless steel tube with 6 coloured removable bins & 2 polystyrene storage unit of 3 drawers each. Top drawers have containers of different sizes. Should have cushioned frame to keep oxygen cylinder.
- Top: Stainless steel of designated 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 of IS-6911-1972 top of 21G sheet.
- Castors: Four swiveling type castors as per IS-4034-1979 two with brakes.

Dimension: Stainless steel sheet of designated 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 of IS-6911-1972 & of 21G frame of stainless steel 1'' x 18G tubes and 3/4'' x 18G tubes. Two polystyrene lockage storage with three drawers each. Stainless steel 12mm rod for IV cardiac message board of 12mm thick ply duly laminated.

Material Used: Stainless steel sheet of designated 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 of IS-6911-1972 & of 21G frame of stainless steel 1'' x 18G tubes and 3/4'' x 18G tubes. Two polystyrene lockage storage with three drawers each. Stainless steel 12mm rod for IV cardiac message board of 12mm thick ply duly laminated.

Finish: good quality durable rust free as per IS-4033-1968

Tests: As per IS-4033-1968

Marking: As per IS-4033-1968

22. S.S. Dressing Trolley (With Bowl & Bucket)

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

Frame: Welded tubular construction two stainless steel pipes.

Top: two stainless steel of designation 04 Cr 18 Ni 10 Ni 10 Or 07 Cr 18 Ni 9 of IS-6911-197 shelves with protective side railing of stainless steel.

Castors: Mounted wheel type 4 nos. swiveling castors as per IS-4034-1979.

Shapes & Dimension: Overall (approx) size 1010mm L x 510mm W x 900mm H, shelf size 750mm L x 500 W (two nos.) with protection railing on all side. As per IS-4769.

Material used: Vertical pipe 1.1/4'' x 18G S.S. longitudinal pipe of 3/4'' x 18G S.S. railing 10mm S.S. rod. Shelf 21 S.S. sheet, bowl and bucket rings of 10mm rod S.S. bowl and bucket of 25G S.S.

Test: Good quality durable rust free

Finish: As per IS-4033-1968 & latest amendments issued if any.

Marking: As per IS-4033-1968 & latest amendments issued if any.

23. Basin S.S.

Stainless Steel 18 SWG

Size: approx 16 inches (dia) x 6 inches (depth)

24. Wheel Chair S.S.

The general requirements shall be as per IS-4033-1968 & IS-6571-1991

Frame: welded frame construction of round stainless steel tubes and stainless steel Sheets.

Top: Stainless steel (top & back) of 18G

Wheel & Castors: Two solid rubber tyred bicycle wheels of reputed make with brakes & self propelling S.S. hoops. Two swivel castors 200mm dia in front shall conform to IS-4043-1979.

Shapes & Dimension: Overall approx size 670mm W x 1100mm L x 920mm H as per fig. 1 of IS-6571-1991

Material Used: Frame work of stainless steel 1'' x 18G tubes. Seat and back of 18G stainless sheet as per designated 04 Cr 18 Ni 10 or Cr 18 Ni 9 of IS-6911-1972 and panels of 21G stainless steel.

Finish: Pretreated – Epoxy finish

Test: As per IS-4033-1968 & latest amendments issued if any.

Marking: As per IS-4033-1968 & latest amendments issued if any.

25. Wash Basin on a Stand

- Steel tubular frame 1'' diameter, SWG 16 with iron rod attached to the ring for towel.
- Size of the basin – 16''
- Height approx 85 – 90 cms
- Epoxy coated 50 microns, white colour
- Three legs base interconnected with steel rods. Legs to be provided with three 50mm Nylon swiveling castors.

26. Instrument Trolley Plain (S.S.)

The instrument trolley shall generally conform to IS-5631-1970, subject to the following specifications.

Frame: Argon welded & S.S. tubular rust free construction.

Top: Two rust free S.S. shelves conforming to 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 grade
as per IS-6911-1972 with protective side railing on three sides.

Castors: 8cm/7.5cm dia wheel type swiveling castors having antistatic rubber tread conforming to IS-4034-1979.

Shapes & Dimension: Overall size 660mm L x 430mm W x 830mm H as per IS-5631-1970.

Material: Vertical S.S. tubes of 25mm X 18G longitudinal S.S. tubes of approx. 19mm X 18G Railing of S.S. 10mm rod. Stainless steel 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.

27. Instrument Trolley Curved (S.S.)

The instrument Trolley shall generally conform the following specification .

Frame: Argon welded & S.S. tubular rust free construction.

Top: Two rust free S.S. shelves conforming to 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 grade
as per IS-6911-1972 with protective side railing on three sides.

Castors: 8cm/7.5cm dia wheel type swiveling castors having antistatic rubber tread conforming to IS-4034-1979.

Shapes &
Dimension: Overall size 1000mm L x 360mm W x 860mm H

Material: Vertical S.S. tubes of 25mm X 18G longitudinal S.S. tubes of approx. 19mm X 18G Railing of S.S. 10mm rod. Stainless steel 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.

28. Mayo's Table (S.S.)

The Mayo's shall generally confirm IS-6905-1973

Frame: Welded tubular frame mounted on castors.

Top: Stainless steel of grade 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 grade as per IS-6911-1972

Castors: Shall shown in fig 1 or IS-690-1973. Adjustable height of tray from 830mm to 1270mm tray size of 560mm length and 415mm width.

Material Used: Stainless steel ERW 18G construction. A stainless steel tray of grade 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 of 21G mounted on rectangular construction of S.S. 5mm flat.

Finish: Finish bright & S.S. top to be passivated.

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.

29. Transfer trolley system (S.S.)

The general requirements shall be as per IS-4033-1968, subject to the following specification.

Frame: Welded frame construction of ERW tubes. Two under carriages & one stretcher.

Top: The stretcher with rollers which can roll on both the under carriages and at one

Under carriages and at one end on ratchet.

Castors: Mounted on (4 nos.) swiveling type 12.5cm dia castors.

Dimension: Overall (Approx) size 2050mm L x 570mm W x 900mm H.

Material Used: Stretcher top of aluminium duly powder coated. Under carriages are made from 1.1/4" x 18G. vertical pipes and 1 x 18G horizontal tube. Top pipes are of stainless steel. Stretcher frame of M.S ERW 1" x 14G tubes.

Finish: In good quality durable rust free finish. Power Epoxy

Test: As per IS-4033-1968 & latest amendments issued if any.

Marking: As per IS-4033-1968 & latest amendments issued if any.

30. Attendant Cot (Guest Cot)

Size: 206 L x 66 W x 46 H cm

Mattress: Matching size

Surface: 198 L x 61 W cm

Patient's attendant perforated CRCA sheet top bed. Strong "U" – shaped legs on rubber stumps.

Perforated, Epoxy finish.

31. Medical Cabinet (Steel Almira)

- Steel almira (1800mm± 10mm) x (850mm±10mm)
- A pair of hinged doors & handle with internal locking arrangements with four fixed shelves making five partitions.
- Built of 18 SWG CRCA sheet throughout including shelves and leg support. Colour – sky blue.
- The foot mounts of the almira should be of totally antirust material of 120mm height covering almost the entire depth.
- Almira should be fitted with a lock of 6 lever confirming to IS:729:1979 or equivalent.
- The above product should conform to applicable ISI standard in respect of materials, welding process, test performance.

32. Cylinder trolley (Push Type)

The general requirement shall be as per IS-4033-1968, subject to the following specification

Frame: M.S. ERW tubular welded construction conforming to IS-2039-1964 (Specification for steel tables).

Base: Base made from M.S. sheet to receive oxygen cylinder, suitable cleaned and powder coated to attain good rust resistant quality. The shape shall be as per fig. 1 of IS-6270-1971

Wheel: Two rolling wheel of 100mm x 25mm thick, best quality rubber with bearing.

Dimension: Trolley suitable to receive 1320 liter capacity cylinder (Approx)

Material Used: Round tube 25.4mm dia x 1.22mm thick. Flat 25mm wide x 6mm thick, base plate of 2.5mm thick.

Finish: Pretreated and powder coating 60 micron thickness.

Test: As per 6.1.2 of IS-4033-1968 & latest amendments issued if any

Marking: As per 8 of IS-6207-1971 & latest amendments issued if any

33. Bed Pans (Male)

- Bed pan male with cover & handle
- Material: Stainless steel (304 gauge 18)
- Welding : leak proof with Argon or equivalent welding

Stainless steel in standard size.

34. Bed Pans (Female)

- Bed pan female with cover and handle
- Material: Stainless steel (304 gauge 18)
- Welding : leak proof with Argon or equivalent welding
- Size: Standard

35. Urine Post (Male)

- Urinal male with cover & handle
- Material: Stainless steel (304 gauge 18)
- Capacity: one liter
- Should be leak proof and welding should be argon or equivalent welding
- Standard size

36. Urine post (Female)

- Urinal male with cover & handle
- Material: Stainless steel (304 gauge 18)
- Capacity: one liter
- Should be leak proof and welding should be argon or equivalent welding
- Standard size

37. Beside Table (Adjustable)

The general requirements shall be as per IS-4033-1968

Frame: Basic frame of rectangular tube welded construction. Top frame tubular welded constructions and stems of sheet metal fabrication or any other reputed design.

Top: Laminated board in two piece construction.

Castors: Rolling – cum –swiveling castors (4nos.) as per IS-4033-1979.

Shape &

Dimension : Overall length 760mm L x 350mm W and height adjustable from 750- 770mm to 1050 – 1070mm (Approx)

Material Used: Base frame of rectangular tube of 30 x 60 1.6mm top frame of square tube of 25 x 25 x 1.25mm and stem made from 14G CRCA sheet of IS-513 D quality.

Finish: Pretreated and powder coating 60 micron thickness.

Test: As per IS-4033-1968 & latest amendments issued if any

Marking: As per IS-4033-1968 & latest amendments issued if any

38. Kick Bucket (S.S.)

The general requirements shall be as per IS-4033-1968, subject to following specification.

Frame: Stainless steel welded tubular and rod construction.

Bowl details: Stainless steel bowl.

Castors: Mounted on three 7.5cm dia wheel type swiveling castors as per IS-4034-1979

Dimension: Stainless steel bowl of 350mm dia total height of bucket is 300mm (approx).

Material Used: Stainless steel bowl 22G conforming to designation 04 Cr 18 Ni 10 Or 07 Cr 18 Ni 9 as per IS-4033-1979.

Finish: In good quality durable rust free finish.

Test: As per IS-4033-1968 & latest amendments issued if any

Marking: According to 7 of IS-4033-1968 & latest amendments issued if any

39. Examination Couch

Frame: MS tubular section MS sheet shutters, drawn side cabinet. All MS work shall preheated and powder coated 50 micron.

Size: Overall approx size 1890mm L x 510mm W x 820mm H

Shape &

Dimension: Gas spring assisted adjustable backrest of size 450mm L x 510mm W with polyurethane foam, 5cms thick, covered with stain free.

Upper section with three drawers. Lower section comprises of cabinet with lockable sliding doors, swinging tray for B.P. Apparatus.

Pretreated and powder coated.

40. Stretcher Trolley

The general requirements shall be as per IS-4033-1968, & IS-4035-1967 subject to following specification

Frame: tubular construction of rounded stainless steel rust free tubes.

Top: Removable stretcher with aluminium top duly powder coated to get excellent rust resistant quality.

Castors: Four swiveling type castors as per IS-4034-1979.

Dimension: Overall length 1220mm L x 610mm W x 785mm H as per fig. I of IS-4035-1967.

Material Used: Aluminium sheet 18G for vertical frame support of 1.1/4'' x 18G stainless steel. Horizontal frame support of 1'' x 18G stainless steel tubes. Stainless steel frame 1'' x 16G S.S. tubes.

Finish: Good quality durable rust free as per IS-4033-1968.

Test: As per IS-4033-1968 & latest amendments issued if any

Marking: As per IS-4033-1968 & latest amendments issued if any

Instructions to bidders

- 1) Mattress – material polymethane , thickness as per technical specification. Density 30/32. It should be covered with foam leather, approximately 1.5 to 2mm thickness.
- 2) Size of round tube mild steel/SS should be 25mm, 16 gauge.

- 3) Size of rectangular tubular material mild steel/SS wherever applicable should be 50mm x30mm gauge 16.
- 4) All MS material should be fully pretreated chemically and with polyester epoxy powder with a minimum thickness of 50 micron. Finish should be resistant to chipping and scratches
- 5) Analysis of SS material wherever applicable should be enclosed with the bid.
- 6) Product should be as per applicable IS standard in respect of material, including process test and performance. Standards followed and internal test report should be enclosed.
- 7) Manufacturer should be ISO certified ISO 9001- 2000, 13485/2003

Pictures shows of any/all items are just for an idea however actual may be deferred as approved by Engineer/Client.



