

Request For Budgetary Estimate of furniture work for 200 Bedded Power grid Vishram
Sadan, Jhansi, Uttar Pradesh

HSCC/Power grid Vishram Sadan /Jhansi/Fur/2025

Date: 09/09/2025

HSCC (India) Ltd. intends to invite on-line Budgetary Estimate from eligible bidders for Supply, Installation testing and commissioning of furniture for 200 Bedded Power grid Vishram Sadan, Jhansi.

Technical Specifications and Bill of Quantity proposed for Furniture items are annexed herewith. It is requested to submit the Budgetary Quotation of the Furniture items with inclusive of all taxes & duties, 3 Years warranty and freight from warehouse to consignee location i.e. Power grid Vishram Sadan, Jhansi, Uttar Pradesh.

The quotation should be on Company Letter Head with sign and stamp as per the BOQ format enclosed and should be submitted in both Hard & Soft Copy within 15 days of issue of this Notice at the following address:

Procurement Department
HSCC (India) Ltd.,
E-6(A), Sector-1,
Noida (U.P.) - 201301.

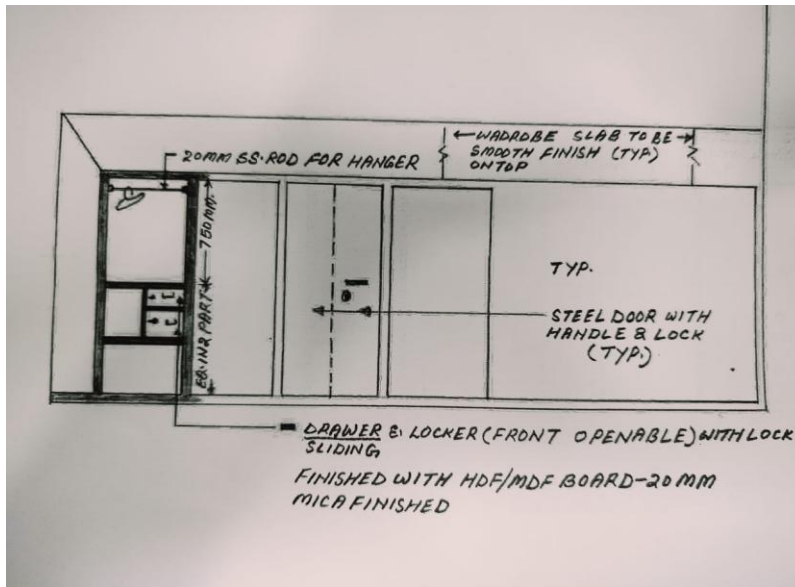
Soft copy may please be sent to: sk_sharma@hsccltd.co.in, l_singh@hsccltd.co.in

Procurement Department,
HSCC (India) Ltd.

Technical Specification for 200 Bedded Power grid Vishram Sadan, Jhansi, Uttar Pradesh

(ALL images are indicative only)

1. WARDROBE (Storage)



Supply and Installation of customized wardrobe, the width and height as per site measurement and Depth shall be : 600-700 mm approx. ($\pm 5\%$ Engineering Variation), wardrobe shall be provided with 2 nos. of CRCA steel Door with 1.0 mm thick sheets conforming to grade as per CRI of IS 513 (part-1):2016, Door shall be provided with stiffener (1.0 mm thick steel), SS handle and 3 way cam lock, the 2 nos. rack shall be made of 1.2 mm thick MS sheets, All Body panels (Top Panel, Side Panel, Back Panel and Locker shall be made of 20 mm thick laminated ISI marked MDF board with 1.0 mm thickness of laminate/Mica, All the Exposed edges of HDF board to be sealed with 2.0 mm thick PVC edge banded with the help of hot-melt glue through fit edge-banding machines, The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing, All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. All Wooden panel are stained to pass 4H test of scratch resistivity, Two Nos. of front openable sliding locker shall be fitted/provided in the almirah with lock and handles, One nos 20 mm diameter Stainless steel hanger rods shall be fitted/provided in almirah, Hardware: The high quality hardware like (Handles, Drawer Handel/Knob, Hinges, telescopic slide/drawer channels, screw, tower Bolt etc.) shall be Hettich/Ebco Makes/ or as approved by engineer in-charge/employer. Lock used for door is 3 way cam lock, MDF board and Laminate Make: (Century/Action Tesa/Merino/Greenlam), Steel Make : TATA Steel/Sail Steel/JINDAL Steel or as approved by

engineer in-charge/employer, Construction: Knock Down construction. Wardrobe as approved by engineer in-charge/employer.

2. Single Bed with metal frame



Providing and placing of Single Bed with clear Size 915mm(W)X 1981mm(L)X 450mm (H) ($\pm 5\%$ Engineering Variation), The legs frame shall be made of MS tube of 50mmx50mm X 1.6 mm thick & shall be supported by end caps. The height of the bed at leg side shall be 480 ± 10 mm & head board shall be $900\text{mm} \pm 10$ mm. The bed mattress panel shall be made of MS square tube 50 X 50 X 1.6 mm thick. The beds mattress platform shall be made of 25 mm thick laminated ISI marked Commercial plywood (Moisture Resistant grade plywood), thickness of laminate/Mica shall be 1.0 mm, All the exposed edges are sealed with 2 mm thick PVC edge banding. bed mattress panel shall be supported by 05 nos. MS square tube 30mmx30mm X 1.25 mm thick. Leg and Bed frame shall be connected to each other with MS tube of size 50mmx40mm X 1.6 mm thick. and two extra leg shall also be provided in middle of the bed with adjacent joint, The beds head and foot board shall be made of 25 mm thick laminated ISI marked Commercial plywood (Moisture Resistant grade plywood). All metal structure shall be welded by MIG/CO2/Electric welding. All steel structural components shall be processed and made from virgin material sourced from SAIL / Tata Steel/Jindal Steel or equivalent manufacturer or as approved by employer. all metal component shall be finishing with Epoxy powder coated with thickness of 50 microns ($\pm 10\%$). Powder coating: Conforming to IS: 13871. The powder coated components shall be tested on regular basis for Scratch resistance test of 4H. Each corner of the bed shall have U-shaped support to avoid the displacement of the mattress. Load bearing capacity of bed shall be 350 kgs, Steel Make : TATA Steel/Sail Steel/JINDAL Steel, Metal Single Bed as approved by engineer in-charge/employer. The single bed with box should be complete as per sample approved or as approved by engineer in-charge/employer.

3. Mattress



Supply and placing of single bed Mattress with clear Size 915mmWX 1981mmL x 100 mm thick)/ mattress as per size of single bed, Thickness of Mattress is 100mm, Number of Layers : Two Layers, Thickness of Core Layer 1 (± 2 mm) :150 mm, Thickness of Top Layer (± 2 mm) 25 mm, Material of Core Layer 1 : PU Bonded Foam, Quilting: Both Side Quilting (Double Sided), Quilting Material: PU Foam, Density of Quilting Material (± 2 Kg/m³): 18 Kg/m³, Thickness of Quilting (± 2 mm): 14 mm, Core Layer 1 Density: 80 Kg/m³, Top Layer Density: 28 Kg/m³, Compression Set for PU Foam (non quilting) as per IS 7888 1976 (Max): 10 %, Resistance to Ageing for PU Foam : Shall meet the requirement of IS 7933 Latest, Resistance to Ageing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for PU Foam as per: IS 7933 Latest, Resistance to Flexing for Rubberised Coir Foam: Shall meet the requirement of IS 8391 Latest, Durability Test for Complete Mattress: loss of height not more than 13 mm (as per ASTM 1566), Brand of Mattress: sleep well/kurlon or mattress as approved by engineer in-charge/employer

4. Pillow with cover



Supply of Pillow with cover, Size of pillow: 43 cm x 68 cm, Shape: Rectangular, Weight: 750 Gram, Made from Finest Materials: 100% Combed Cotton Cover, Rich 235 Thread Count |

Double-needle stitching with piping for durability. Easy washing and drying, Pillow with cover as approved by engineer in-charge/employ

5. Bed sheet for single bed



Single Bed sheet made from finest material: 100% Cotton, Bed sheet Strip size: 60"x100" premium 40's count satin stripe cotton: Brand: Bombay dyeing or equivalent or as approved by engineer in-charge/employer.

6. Blanket



Supply of blanket with 1000 GSM Luxury 2 Ply Single Bed (the blanket is made with two layers of fabric) Blanket for Heavy Winter, Size (1.60 m x 2.20 m) (Length x Width). Weight: 3.6 KG or Blanket as approved by engineer in-charge/employer.

7. Blanket Cover



Supply and installation of blanket cover with Quilt Cover Single Bed with Zipper, Blanket/Rajai/Comforter/Duvet Cover King Size Glace Cotton Warm Stuff, Design and color as approved by engineer in-charge/employer

8. Dohar/Ac Blanket



Supply of Single Bed 190 GSM Ac Blanket/Dohar lightweight, breathable, and ideal for use in air-conditioned rooms, Ac Blanket/Dohar as approved by engineer in-charge/employer.

9. Bed side table



Supply and Installation of Bed Side table with one lockable drawer and one open shelf, Overall Size of bed side table: Depth - 450 mm, Width: 440 mm, Height: 510 mm, ($\pm 5\%$ Engineering Variation) Material : Body and drawer panels of Bed side table are made of 18 mm thick ISI marked Commercial plywood (Moisture Resistant grade plywood) faced with 1.0 mm thick laminate on both sides of approved shade, All Exposed edges of Ply board to be sealed with 1 mm thick PVC edge band and 0.8mm thick PVC edge-banding tape to be applied on Non-exposed edges pressed at 200o C with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. All Wooden panel are stained to pass 4H test of scratch resistivity. Hardware: The high quality hardware shall be use (like: Drawer Handel, Roller slides/channel, Hinges, mini-fix, dowels, locks, screw etc), make of hardware Hettich/Ebco/or as approved by engineer in-charge/employer. (Ply board and Laminate Make: CENTURY PLY/Action Tesa/GREENPLY or as apporved by engineer in-charge/employer)

10. 6 Seater Café Table



Supply and installation of Dining Table as per technical specification. 6-Seater Dining table size shall be 1734 Width mm x 1175 Depth mm x 750 Height mm ($\pm 5\%$ Engineering Variation). Top shall be 25 mm thick base material shall be 25 mm MDF board. On top PU painting of minimum 2H hardness with 75% glass as per colour chart. Combination colour graphics on the centre. Brown Laminate on bottom specially profiled edges for comfort. The Under structure shall be having bend pipe structure of MS powder coated. Pipe dia 38 mm , 2 mm thick and it shall be fitted with top by SS machine screws . Legs shall be of MS powder coated and 38 mm dia. pipe legs are fixed with under structure and table top. Glide shall be of Plastic fixed at the under structure to prevent the damage of table top during stacking. All Hardware: The high-quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc is make of Hettich/Ebco or equivalent or as approved by engineer in-charge/employer, (MDF Board and Laminate Make: CENTURY/GREENPLY/Action Tesa or equivalent or as approved by engineer in-charge/employer) ,, Dining Table as approved by engineer in-charge/employer.

11. Dining Chair



Providing and placing of dining Chair, the seat and back are made up injection molded high impact strength polypropylene polymer compound with indoor grade UV Resistance. The welded Leg and tubular frame is made from stainless Steel 202

grade tube. The tube are buff polished to give shiny finish. size of stainless Steel 202 grade tube: $2.52 + 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$ thickness and $3.5 \pm 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$ The Shoes are made of high impact strength polypropylene polymer compound with indoor grad UV Resistance and pressed fitted with tubular frame. SIZE: over all height of chair: 900 mm, seat height of chair: 450mm, Seat Size: 525mm(W)x532 mm(D), Back Size: 516 mm (W)x455mm (H). Dining Chair as approved by engineer in-charge/employer

12. 3 seater Sofa



Supply and Installation of Three-Seater Sofa • SEAT FOAM: The seat is made of PU foam with Density $28 \pm 2 \text{ kg/cu. meter}$ having an additional top layer of super soft PU foam in Density $32 \pm 2 \text{ kg/cu.}$ upholstered with fabric or leatherette. Seat Cushion Thickness $\pm 3 \text{ (mm)}$: 150mm

- 2) BACK FOAM: The back is made of PU foam with Density $28 \pm 2 \text{ kg/cu. meter}$ with two additional top layers of super soft foam of density $32 \pm 2 \text{ kg/cu. meter}$, upholstered with fabric or leatherette. Backrest Cushion Thickness $\pm 3 \text{ (mm)}$: 175mm

- 3) UNDERSTRUCTRE: Under structure is made up of $1.2 \pm 0.1 \text{ cm.}$ thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose.

- 4) LEG ASSEMBLY: It is a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic end cap. (W) 2060mm (D) 905mm(H) 855 mm seat (H) 450 mm, Sofa Leg Height $\pm 2 \text{ (mm)}$: 150 mm, Sofa Leg Width / Diameter $\pm 2 \text{ (mm)}$: 40 mm, Arm Height $\pm 5 \text{ (mm)}$: 710mm, Arm Width $\pm 5 \text{ (mm)}$: 120mm, . Sofa: as approved by Engineer In-Charge/employer.

13. 2 seater Sofa



Supply and installation of Two-Seater Sofa, SEAT FOAM: The seat is made of PU foam with Density 28 ± 2 kg/cu. meter having an additional top layer of super soft PU foam in Density 32 ± 2 kg/cu. upholstered with fabric or leatherette. Seat Cushion Thickness ± 3 (mm): 150mm

- 2) BACK FOAM: The back is made of PU foam with Density 28 ± 2 kg/cu. meter with two additional top layers of super soft foam of density 32 ± 2 kg/cu. meter, upholstered with fabric or leatherette. Backrest Cushion Thickness ± 3 (mm): 175mm
- 3) UNDERSTRUCTRE: Under structure is made up of 1.2 ± 0.1 cm. thick hot-pressed plywood (moisture resistance & termite proof as per IS: 303) & pinewood of cross section devoid of major knots & surface defects 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose 6 nos. per seat & 3.8 mm Dia zigzag spring assembly is mounted over under structure for cushioning purpose.
- 4) LEG ASSEMBLY: It is a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic end cap. (W) 1460mm (D) 905mm(H) 855 mm seat (H) 450 mm, Sofa Leg Height ± 2 (mm): 150 mm, Sofa Leg Width / Diameter ± 2 (mm): 40 mm, Arm Height ± 5 (mm): 710mm, Arm Width ± 5 (mm): 120mm Sofa: as approved by Engineer In Charge/employer.

14. Centre Table



Providing and supplying center table of size: 1200mmW x600mmD x400mmH, top made 25mm thick pre laminated MDF Board conforming to as per IS 14587: 1998, Grade II corresponding to IS 12406:2003 with PU finish and under storage shelf is made of 18 mm thick pre laminated MDF board with PU finish, All Exposed edges of MDF board to be sealed with 2mm thick PVC edge band and 0.8mm thick PVC edge-band to be applied on Non-exposed edges with the help of hot-melt glue through fit edge-banding machines, The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing , All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Under structure frame and Leg material: Stainless steel (SS 304 grade), size of Frame and Leg material 45mm X 45mm with 1.6 mm thickness, All Wooden panel are stained to pass 4H test of scratch resistivity. Hardware: The high quality hardware shall be use (like: Drawer Handel, Roller slides/channel, Hinges, mini-fix, dowels, locks, screw etc), make of hardware Hettich/Ebco/or as approved by engineer in-charge/employer. (MDF board and Laminate Make: CENTURY PLY/Action Tesa/GREENPLY or as apporved by engineer in-charge/employer), center table as approved by engineer in-charge/employer.

15. Corner Table



Providing and supplying center table of size: 500mmW x500mmD x400mmH, top made 25mm thick pre laminated MDF Board conforming to as per IS 14587: 1998, Grade II corresponding to IS 12406:2003 with PU finish and under storage shelf is made of 18mm thick pre laminated MDF board with PU finish, All Exposed edges of MDF board to be sealed with 2mm thick PVC edge band and 0.8mm thick PVC edge-band to be applied on Non-exposed edges with the help of hot-melt glue through fit edge-banding machines, The Edge-

banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing, All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. Under structure frame and Leg material: Stainless steel (SS 304 grade), size of Frame and Leg material 45mm X 45mm with 1.6 mm thickness, All Wooden panel are stained to pass 4H test of scratch resistivity, Hardware: The high quality hardware shall be use (like: Drawer Handel, Roller slides/channel, Hinges, mini-fix, dowels, locks, screw etc), make of hardware Hettich/Ebco/or as approved by engineer in-charge/employer. (MDF board and Laminate Make: CENTURY PLY/Action Tesa/GREENPLY or as apporved by engineer in-charge/employer) center table as approved by engineer in-charge/employer.

16. Office Table



Table size shall be 1500mmL x 750mmWx 750mmH ($\pm 10\%$ Engineering Variation). Table top shall be 25 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate, E1 grade laminate with zero urea formaldehyde emissions ($\leq 8\text{mg}/100\text{ g}$ oven dry board-perforated method) for better in-house quality. This should comply with (EN 120-1992). The modesty panel shall be 18 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate. All Exposed edges of pre-laminated MDF board to be sealed with 2mm thick PVC edge banding and 0.8mm thick PVC edge-banding tape pressed at 200o C to be applied on non-exposed edges with the help of hot-melt glue through fit edge-banding machines. The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing. All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel.

ERU - LHS size shall be 1050mm Width x 450mm Depth x 705mm Height ($\pm 10\%$ Engineering Variation). The top shall be 25 mm thick Pre-laminated MDF Board conforming to Grade SBG II of IS 12406/2003 with laminated both side 1 mm thick laminate. Flat Edge duly sealed with 2 mm thick PVC beading. The Modesty shall be 18

mm thick MDF Board with laminated both side 1 mm thick laminate. Edge sealed with 2 mm thick PVC Banding.

Mobile pedestal Unit: 3 drawer (2 drawer & 1 filing Cabinet) Mobiles Metal pedestal of overall dimensions internal and external dimensions 380-430 mm (W) x 430-480 mm (D) x 600-650 mm (H) ($\pm 10\%$ Engineering Variation). Mobile pedestal body should be made of CRCA of thickness 0.8 mm duly powder coated with 70-80 micron. Each pedestal should be provided with pencil tray/drawer size: 120 mm (H) x 380 mm (W). Filling cabinet size; 350 mm (H) x 380 mm (W) ($\pm 10\%$ Engineering Variation) pedestal should have 4 Nos castor fitted to it, diameter of castors is 50 mm, All the pedestal drawers are centrally locked with a single key. All Hardware Make: Hettich (Handles, Slides, Hinges, Drawer Channel), MDF Board and Laminate Make: (Century/Action Tesa/Merino/Greenlam) Consultant Table as approved by engineer in-charge/employer.

17. Manager Table



Table size shall be 1200mm Width x 600 mm Depth x 750mm Height. The top shall be made of 25 mm thick Pre-laminated MDF Board, Modesty panel shall be made of 18 mm thick pre-laminated MDF board, Side panels shall be made from 25 mm thick Pre-laminated MDF board conforming to as per IS 14587: 1998, Grade II corresponding to IS 12406:2003 with both side 1 mm thick laminate, E1 grade laminate with zero urea formaldehyde emissions ($\leq 8\text{mg}/100\text{ g oven dry board-perforated method}$) for better in-house quality. This should comply with (EN 120-1992), The side panels have 2 glide screws each for leveling of the desk. All Exposed edges of Pre-laminated MDF board to be sealed with 2mm thick PVC edge band and 0.8mm thick PVC edge-band to be applied on Non-exposed edges with the help of hot-melt glue through fit edge-banding machines, The Edge-banding of exposed area to be done in the way that there should not be any sharp edge or corner left after processing, All the exposed edges should have buffing radius of 1.5 to 2mm without affecting aesthetic value of the panel. the drawer Pedestal (2 Drawer and 1 File cabinet) shall be made from 18 mm thick Pre-laminated MDF Board confirming to IS-14587:1998, All Exposed edges are sealed with PVC edge-band of 2mm thickness & Non-exposed edges

are sealed with 0.45mm thick Edge-band from REHAU, All Wooden panel are stained to pass 4H test of scratch resistivity (Make -Century/ Action Tesa/ Merino) with a combination of 2 mm and 0.8 mm PVC edge band on all the exposed surfaces as per requirement. The drawers are provided with suitable slides for smooth operation. All the pedestal drawers are centrally locked with a single key. Report Hardware: The high quality hardware shall be use (like: Drawer Handel, Roller slides/channel, Hinges, mini-fix, dowels, locks, screw etc), make of hardware Hettich/Ebco/or as approved by engineer in-charge/employer. (MDF board and Laminate Make: CENTURY PLY/Action Tesa/GREENPLY or as approved by engineer in-charge/employer), Office table as approved by engineer in-charge/employer.

18. High back chair



Supply and installation of chair The cushioned seat assembly shall consist of seat outer (material-30% glass fibre nylon) and upholstered seat inner(material-polypropylene) with moulded polyurethane foam and polyester fabric. the net back should made up of back outer (material-glass fiber filled nylon) and back inner(material-PP) and upholstered using polyester mesh fabric with high tenacity yarn. Size of back shall be (W)-46.5cm, (H)-60.0cm & size of seat shall be (W)-51.0cm x (D)-49.0cm. The support spine should made up of high pressure die cast polished aluminium. Armrest is having two adjustments, Height(6+/-0.5cm) and depth(6+/-0.5cm). Height adjustment shall be provided in aluminium structure of armrest which is connected to aluminium back spine and is operated with button. Arm top is made up of PU moulded over plastic inner. The mechanism shall be Active Bio Synchro Mechanism. The mechanism of chair shall have following features:360-degree revolving type, Seat/Back tilt ratio of 1:2, Active Bio-Synchro mechanism, 5 position tilt limiter giving option of variable tilt angle to the chair. Front-Pivot for tilt with feet resting on ground and continuous lumbar support should

ensure more comfort. The mechanism housing should be made up of HPDC Aluminium and black powder coated. The chair shall be provided with pneumatic height adjustment which shall have stroke of 10.0 +/- 0.3 cm. The pedestal shall be made of die-cast polished aluminium. It shall be fitted with 5 nos twin wheel castor. The size of the pedestal shall be 65.0 +/- 0.5 cm pitch-centre-dia (75.0 +/- 1.0 cm with castors). The twin wheel castors shall be injection moulded in black polypropylene. The lumbar support assembly should consist of lumbar spine (material-glass fibre filled nylon) which is fixed to Aluminium back spine. The neck rest assembly consists of upholstered neck rest inner (material-polypropylene) with moulded polyurethane foam and polyester fabric. Upholstered inner shall be fixed to neck rest cover. Neck rest shall be fixed to back assembly through neck rest spline. Overall dimensions of Chair shall be, Width of Chair - 75.0cm, Depth of Chair - 75.0 cm as measured from pedestal below. Height from ground - min 109.3 to max 124.4 cm. Seat height - min 45.5cm to max 55.5cm. Dimensions tolerance / variations shall be within +/- 1 cm. Chair as approved by engineer in-charge/employer

19. Reception Chair/ Workstation Chair and Table Visitor Chair



Supply and installation of chair, Seat/Back Assembly: The Cushioned seat assembly consists of seat outer (material-30% Glass Fiber Nylon) & upholstered Seat inner (material- Poly Propylene) with moulded Polyurethane foam & polyester fabric. The Net Back should be made up of Back outer (material-Glass Fiber Filled Nylon) & Back inner (material- PP) and upholstered using Polyester Mesh fabric with high tenacity yarn. The product should be GREENGUARD Compliance Certificate AND INDOOR AIR QUALITY Compliance Certificate. Full Back Size: 46.5 cm. (W) x 60.0 cm. (H), Seat Size: 51.0 cm. (W) x 49.0 cm. (D) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR Polyurethane foam

should be moulded with density = $45 \pm 2 \text{ kg/m}^3$ and Hardness load $12 \pm 2 \text{ kgf}$ for 25% compression. BACK SPINE: The support spine should be made up of High Pressure Die cast polished had aluminium. ARMRESTS: The armrest should be having two adjustments, Height ($6.0 \pm 0.5 \text{ cm}$) and Depth ($6.0 \pm 0.5 \text{ cm}$). Height adjustment should be provided in aluminium structure of armrest which should be connected to aluminium Back spine and should be operated by button. The depth adjustment should be provided in pad which should be fixed to armrest structure. Armrest Top should be made up of PU moulded over plastic inner. ACTIVE BIO-SYNCHRO mechanism: The adjustable tilting mechanism should be designed with the following features: • 360° revolving type • Front-pivot for tilt with feet resting on ground & continuous lumbar support ensuring more comfort • Tilt tension adjustment can be operated in seating position • 5 position Tilt limiter giving option of variable tilt angle to the chair • Seat / back tilting ratio of 1:2 • The mechanism housing should be made up of HPDC aluminium & black powder coated (DFT 40 to 60 micron) SEAT DEPTH ADJUSTMENT: Seat depth adjustment should be integrated in the seat through a sliding mechanism. Seat depth adjustment range should be of $3.75 \pm 0.1 \text{ cm}$ LUMBAR SUPPORT ASSEMBLY: The Lumbar support assembly should consist of lumbar spine (material-Glass Fiber Filled Nylon) which should be fixed to Aluminium Back spine. The Lumbar pad (material- Poly Propylene) should be fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of $5.0 \pm 0.5 \text{ cm}$ PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of $10.0 \pm 0.3 \text{ cm}$. PEDESTAL ASSEMBLY WITH CASTORS: The pedestal should be High Pressure Die cast polished aluminium and fitted with 5 nos. twin wheel castors. The pedestal should be $65.0 \pm 0.5 \text{ cm}$. pitch-centre dia. ($75.0 \pm 1.0 \text{ cm}$. With castors.) TWIN WHEEL CASTORS: The twin wheel castors should be injection moulded in black PP having $6.0 \pm 0.1 \text{ cm}$ wheel Diameter. Chair as approved by engineer in-charge/employer.

20. LED TV 55 Inch



Supply & Installation of LED Smart TV 55 Inch with 5-star rating including electrical work /wiring & making good the same complete. Key Feature: Ultra HD 4K TV, Smart TV, Google TV, 20 Watts, X-Balanced Speaker, Dolby Audio, Dolby Atmos, 2xUSB,

4XHDMI, 1x Optical Audio Output. The make of LED Smart TV shall be Sony/Samsung or as approved by Engineer In-charge/Employer

21. SS Dustbin



Supply Installation of Stainless-steel Dustbin with Lid and Handel- Dimension of dustbin shall be 10 Inch X 14 Inch, capacity of dustbin: 15 Liter. Material Non-Magnetic stainless steel 202 Grade, Thickness of wall is 1.0 mm, Dustbin shall be Leg operated, Dustbin as approved by Engineer In-charge/Employer.

22. Dustbin 60 kgs



Dust bin Large: Heat resistant, UV stabilized, Made of High-Density Polyethylene (HDPE) material Injection molded, - Leg Operated, -Dead weight approx. (kg) -10.5, - Useful load (kg)- 60, - Overall height (mm)- 940, - Overall width (mm) 480, Overall depth (mm)-550, Upper edge comb (mm)-870, Wheel diameter (mm)-200 as approved by Engineer In Charge

23. Roller Blind Curtain for window



Providing & fixing up of Window curtain (Roller blind) Black out/translucent type in required sizes having the following specification:

Mounting Bracket: Mounting hardware brackets, universal brackets including end plug bracket should come with lock down retainer device. Metal brackets provided should come in powder coated finish. All installation brackets made of stamped and hardened steel allowing a 46mm projection from the wall, ceiling and side fitting with screws and end cap covers.

Cassette: It is a cover for blinds installed outside the window frame to hide tube brackets and mechanism. This is aluminium extruded rail made up of high strength aluminium alloy, which is covered with matching fabric. For 38 mm grooved roller tube cassette size should be 100mm (Width)*100mm (Height) and having weight =1200gm/running meter ($\pm 5\%$).

Cassette Ceiling Bracket: This is made up of carbon Steel, DIN Standard Steel, Thickness: 1.0mm, Powder Coating Thickness: 0.15mm to 0.20mm. This provides near invisible fixing of the cassette.

Cassette system end caps: It should have minimum 2.5mm thickness plastic end cap and should be in coordination with the blind fabric colour.

Roller Tube: This is made up of High Strength Aluminium Alloy Extruded grooved tube having outer diameter 38mm(± 1 mm) & thickness 1.25mm ($\pm 5\%$) as per AA6063 Alloy. Tubes must come in natural anodized finish. To achieve greater reinforcement anodized tubes must have at least six internal ribs so that additional tensile strength can be achieved and allowing provision for secured placements of clutch and end plug.

Roller tube brackets: Spring steel metal brackets powder coated in matching finish to be used on both ends to support the roller system. Brackets can be top or face fixed.

Control Unit: Blinds mechanism must have the control clutch drive unit with engineered heavy duty chain drive pulley operating system consisting of gear clutch housing and locking plug containing at least 6 ribs and inserted into a minimum of 38mm dia. roller tube. Clutch has to be self-lubricating with safety pins for secure bracket installation and unlocking pin for quick manual removal. Provided clutch system must allow convenience in operation for large windows to the smallest windows. The control unit should be made up of polypropylene material using injection moulding method. Gearing Ratio: 1.75:1 to reduce operating force for larger blinds. 24nos Sprocket for 38mm diameter roller tube. Control unit is operated directionally by the use of beaded endless chain to raise and lower the blind smoothly.

Idler: Tube bearing plug idler should have the properties of self-lubricating spring-loaded plastic bearing end plug with positive locking wheel that allows for adjustment and provides a secure installation and removal of blinds. Tube bearing plug should contain at least 6 ribs and inserted a tube not less than 38mm roller tube. Idler is of high strength reinforced plastic, consisting of an outside sleeve and centre shaft. Sleeve provide bearing surface for centre shaft and rotate freely, providing smooth, quiet and long wearing operation. It is a Part of Control Unit Assembly.

Bottom Rail: This is made up of extruded aluminium bottom bar having powder coating of 55 microns and wall thickness of $\pm 1.2\text{mm}$ (± 0.1) and width of 26.5mm ($\pm 1\text{mm}$) and height of 33.5mm ($\pm 1\text{mm}$) and weight: $380\text{gm}/\text{meter}$ ($\pm 5\%$). All bottom rails should come with powder coated finish with an end cover perfectly in matching with the fabric.

Bottom bar also includes concealed bottom bar rod to allow fabric to roll as per duplex guidelines and dimensions of concealed bottom bar rod specified as inner diameter: 10.8mm , outer diameter: 14.8mm , Weight: $219\text{gm}/\text{meter}$, Thickness: 1mm ($\pm 5\%$) should be provided with matching cover.

Concealed bottom bar rod: Bottom bar includes concealed bottom bar rod to allow fabric to roll as per duplex guidelines. Aluminium bottom bar rod made up of AA6063 alloy having Rod I/D: 10.8mm , O/D: 14.8mm , Weight: $219\text{gm}/\text{meter}$, Thickness: 1mm ($\pm 5\%$) with the covered matching.

Bottom bar end caps: End caps of bottom bar should be made up of ABS material using Injection moulding method having perfect push fit with the bottom bar. The dimensions of end caps of bottom bar specified as length: 18mm , width: 27.5mm , height: 34.5mm , thickness 2mm and end caps of bottom bar should also have polyurethane bush to fit in bottom tube for smooth operation of blinds.

Operating chain: Blinds set is to be driven by a ball chain pulley and ball chain and can be positioned at Right hand or Left-hand side of the blinds set. This is made of 4.5mm plastic beads moulded on 2.0mm thick polyester cord. The chain drives the sprocket fixed in the end control unit to close and open the blind. The pitch of the chain corresponds to the sprocket in perfect match for trouble free operation. Average number of balls on chain should be 50 per foot length. Plastic chain should provide ease

in operation with chain connector and polycarbonate stopper of O/D:6mm & I/D: 4mm to avoid reverse rolling of fabric over tube and protecting damages to blind fabric.

Cord Weight: It should have suitable acrylic clear cord weight to suit the operating chain. Thickness: 14mm, width: 30mm and height: 80mm.

Note: The control unit & cassettes shall be made with matching colour of blind with aesthetically pleasing matching look of room.

The fabric shall be selected from best quality fabric. The fabric shall have properties such as acoustic control, anti-fungal and anti-microbial. Sheer fabrics shall allow in maximum amount of light (20-100% light transmission), whilst still preserving privacy and dim out (Privacy fabrics) (1 – 19% light transmission) allow in restricted amount of light, whilst ensuring complete privacy, even in the evening. Blackout fabric shall completely block out sunlight, for complete privacy, room darkening and temperature regulation (0% light transmission).

The fabric colour as approved by employer The weighted composition of fabric shall be made of 100% Polyester woven fabric with a openness factor of 3%. The fabric shall have a weight of 168 GSM (± 5 GSM). The solid depth of fabric shall be 75mm and sheer depth shall be 50mm. Light fastness shall be 4-5 Grade tested in accordance with BS EN ISO 105-B01:1999, Roller Blind Curtain as approved by engineer in-charge/employer.

24. Kitchen Chimney



Kitchen Chimney size: 600mmx900mm, Air Flow: 1400 m³/hr, absorb smoke, fumes from kitchen and makes kitchen clean and oil, smoke free, Auto clean, Touch Control, Baffle Filter and Kitchen Chimney of reputed brand or as approved by Engineer In-charge/Employer

25. Reception Counter



Providing & placing of customized reception counter in rectangular shape with two tops. The under structure of table shall be made of 25 mm thick pre laminated Marine plywood, clad with 12 mm thick Corian sheets with desired length thermoformed by using dyes and Molds and pasted and seamlessly finished over. MS pipe framework to be used for strengthening the structure. The item includes cost of 12mm thick CORIAN sheet, 25 mm Marine plywood & MS square pipe, hardware, drawer units, shutter doors with laminated mica or veneers, locking mechanism, foot rest etc. as per architect's drawing and finished as per guidelines of site in charge. The entire structure shall be made of 25 mm thick marine plywood with MS frame work with finish of 1 mm thick laminate, All the edges are sealed with 2 mm thick PVC edge band all around, All the inner surfaces shall be finished with 1mm thick white laminate or as approved by engineer in charge, 6 Nos. Computer key board tray and 6 nos. drawer cabinet shall be provided in reception counter with locking arrangement, Height of all three drawers shall be 150mm, 150mm and 350mm respectively. width: 450 mm , height: 680 mm, Drawer shall be made of 18 mm thick marine plywood with finish of 1 mm thick laminate, All the edges are sealed with 2 mm thick PVC edge band all around. Each drawer shall slide on a pair of telescopic drawer sliders (Approved make). The inside portion of drawer to be finished with white laminate. provided double Front panel to mount Electrical Switches and sockets, working Top height must be 750mm. Counter top height must be 1050 to 1200mm. Depth of working top must be 650 mm to 750 mm, All Hardware: The high quality hardware used like Roller slides, Hinges, mini-fix, dowels, handle, screw etc is make of Hettich/Ebco/or equivalent/or as approved by engineer in-charge/employer, (Ply and Laminate Make: CENTURY/Action Tesa/GREENPLY or equivalent/or as approved by engineer in-charge/employer), Designee and color of reception table as approved by engineer in-charge/employer.

26. Steel Almirah For office



Providing and placing of Steel Almirah overall size: 916mm(W)x486mm(D)x1980mm(H) with welded construction. Almirah shall be made of CRCA 'D' grade high yield strength, CRCA sheets conforming to grade as per CRI of IS 513 (part-1):2016, It should have 4 Nos. shelves with thickness of 1.0 mm, Back thickness of 1.0 mm, Door thickness of 1.0 mm (high yield strength) and stiffener shall be provided in door up to full height, Width of stiffener: 115 mm, Stiffener sheet thickness: 0.8 mm and all other components shall have thickness of 1.0 mm. The Steel Almirah 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 (UDL) for shelves: 80 Kg. Almirah also have a M10 Screw type Leveller with Hex plastic base, Number of hinges (for each door): 03 Nos. Hinges sheet thickness: 2 mm, Pedestal height (± 5 mm): 125 mm, The finishing shall include Epoxy powder coated with thickness of 50 microns (+/- 10%). Powder coating: Conforming to IS: 13871. The product should be complete and as per sample approved & as per direction of Engineer-in-charge/employer.

27. MICRO WAVE 32 LTR



Supply and installation of 32 Liter convection Microwave Oven, Black, Auto Cook Menu, Stainless steel cavity, 360° Motorised Rotisserie, Make LG or as approved by engineer in-charge/employer.

28. Induction stove 2000 Watt



Supply and installation of induction stove with Square Single Element Induction Heater 2000 watt, Brands Havells or as approved by Engineer In-charge/Employer.

29. Oil Heater 2000 watt(13 fins)



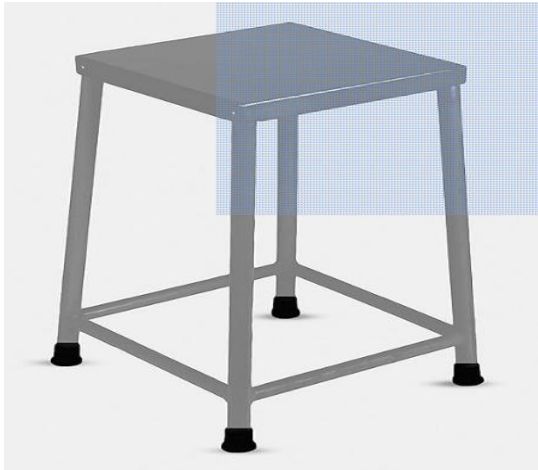
Supply and installation of Oil Fill Heater with 13 Fins with Fan Room Heater 2900 W Black, Brand/ Make: Bajaj/ Havells or as approved by Engineer In-charge/Employer

30. Refrigerator Approx 700 Ltr Double DOOR



Supply and installation of 700 Litre Refrigerator with Inverter Side-by-Side Refrigerator
Brand/ Make: LG/ Samsung or as approved by Engineer In-charge/Employer

31. Stool 4 legs



Supply and installation of four leg Sitting Stool | Stool for Indoor Or Outdoor | Metal Lightweight Stool | Stool for Office & Home | Stool for Kitchen & Garden | Heavy Duty | Table Stool (30 L x 30 W x 50 H CM's, Silver Colour), Leg shall be made of MS square flat tube of section 25 x 25mm with thickness of 2mm. Thermosetting epoxy polyester powder coating is done for all MS parts. Neoprene shoes are Provided to avoid the wear & tear of the product. Safe working load is 135kg. stool as approved by engineer in-charge/employer.

32. Dustbin



Supply and installation of Stainless Steel Plain Pedal Bin with Plastic Bucket and Lid | Garbage Bin Trash Can Dustbin with Lid Round Shape Dustbin for Home, Bathroom, Kitchen, Office (Pedal Bin 7 * 11inch, 5 Liter)

33. Washing Machine



Supply and installation of 10 KG Capacity fully automatic Front-Loaded Type Washing Machine. Brand/ Make: IFB/ LG or as approved by Engineer In-charge/Employer.

Budgetary Estimate of furniture work for 200 Bedded Power grid Vishram Sadan, Jhansi, Uttar Pradesh					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 3 years Warranty	Amount (In Rs.)
1	Wardrobe (Storage)	Sqmt	424		
2	Single Bed with metal frame	Each	204		
3	Mattress	Each	204		
4	Pillow with cover	Each	286		
5	Bed sheet for single bed	Each	286		
6	Blanket	Each	204		
7	Blanket Cover	Each	286		
8	Dohar/Ac Blanket	Each	286		
9	Bed side table	Each	204		
10	6 Seater Café Table	Each	14		
11	Dining Chair	Each	200		
12	3 seater Sofa	Each	4		
13	2 seater Sofa	Each	2		
14	Center Table	Each	4		
15	Corner Table	Each	4		

Budgetary Estimate of furniture work for 200 Bedded Power grid Vishram Sadan, Jhansi, Uttar Pradesh					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 3 years Warranty	Amount (In Rs.)
16	Office Table	Each	1		
17	Manager Table	Each	3		
18	High back chair	Each	3		
19	Reception Chair/ Workstation Chair and Table Visitor Chair	Each	5		
20	LED TV 55 Inch	Each	1		
21	SS Dustbin	Each	60		
22	Dustbin 60 kgs	Each	10		
23	Roller Blind Curtain for window	Sqmt	324		
24	Kitchen Chimney	Each	2		
25	Reception Counter	Sqmt	8		
26	Steel Almirah For office	Each	2		
27	MICRO WAVE 32 Litre	Each	2		
28	Induction stove	Each	4		
29	Oil Heater (13 fins)	Each	4		

Budgetary Estimate of furniture work for 200 Bedded Power grid Vishram Sadan, Jhansi, Uttar Pradesh					
S. No.	Name of Items	Unit	Quantity	Rates per Unit including of all taxes with 3 years Warranty	Amount (In Rs.)
30	Refrigerator (700 Litre)	Each	1		
31	Stool 4 legs	Each	204		
32	SS Dustbin	Each	46		
33	Washing Machine	Each	2		
	Total Amount in Rs.				