

HINDUSTAN PREFAB LIMITED
Jangpura, New Delhi 110014

Name of work :- Design Manufacture, supplying and installation of modular furniture for 06 Nos PNB CRDT RSETI Buildings at various locations

NITNO:HPL/DGM(Engg)/TC/PNB/Furniture/2019-20/34 Dated :18.10.2019

Bill of Quantity

BOQ ITEM NO	DESCRIPTION	Rates		Amount
		(Rs.)	(Qty)	(Rs.)
1	Single Bed (ID-01): Single bed with internal frame made up of mild steel frame powder coated with seven tank process and MS Square pipe of size 25 x 25mm, 16 gauge and is covered with 19 mm thick commercial board (Green/ Century/ Duro). Bed is without box, Laminated with 1mm Greenlam/ Merino/ Sundek make both sides (top & bottom). All edges of board is covered with 2 mm thick edge banding which is hot pressed with Jowat glue. Out size of the bed is mentioned below. Head board 200mm Height. Size: 1800mm L x 900mm W x 425mm H Head Board 200mm H	9,275.00	6	55,650.00
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2	Dining Table (ID-03): Round table (4 seater) size: 900mm Dia x 750 mm Height with 25mm thick commerical Board. 1mm laminated top & bottom whole side are sealed with 2mm thick REHAU Edge band duly pasted with jowat glue. Frame in Stainless Steel vertical round 50mm diameter to resist vertical load in 1.6 mm thick 16 Gauge with welded/SS angle frame. It shall be provided as top holding & supporting bracket in MS 32 x 3 fully powder coated with seven tank hot process for cleaning & applying a thin phosphate coat and vertical S Steel pipe shall be of matt finish by buffing. All steel structural components shall be processed and made from virgin material sourced from SAIL/TataSteel/Jindals or equivalent manufacturer.	6,745.00	5	33,725.00
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3	Sofa (ID-05): Sofa (2 Seater one nos+1 seater one nos) of Size 1200mmW x 750mmD x 750mmH & 600mmW x 750mmD x 750mmH Seat Height 440mm. The under structure is made in Solid Hardwood Like Sheesham or Marandi. Wood used in manufacturing the frame is passed through complete process of timber seasoning by water seasoning method. The wood used in the frame is termite proof. Section of wood 50 mm x 50 mm and 50 mm x 25 mm. The arms of the sofa are 110 mm wide. The structure of the arms is made in teak wood. The side panel should be covered with 6 mm thick commercial ply so as to enable the pasting of PU Foam and facilitate the stretching of fabric. The sofa shall be upholstered with Synthetic leatherite of high quality of upto Rs 350 per metre. PU Foam used of density 40-50kg/m ³ & covered with approved leathrite. The netting under the Seat cushion and back seat shall be of Elastic of thickness of 2mm (Width – 55mm, Maximum Strech 75%). Good quality hassien cloth to be used to cover the sofa from bottom .SS legs (304) of 75mm height of 16 SWG shall be provided under the sofa. All steel structural components shall be processed and made from virgin material sourced from SAIL/TataSteel/Jindals or equivalent manufacturer.	21,077.00	5	105,385.00
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4	Director Table (ID-09): Office Desk Size 1800 x 900 x 750mm, with three drawer free pedestal unit with one point locking facility + Side Rack (900x450x720) with openable shutter and three drawer with telephonic channels made in Medium Density Fiber Board table with top made of 25mm thick MDF board duly pasted with decorative Laminate on top and balancing laminate on unexposed face for side rack. The understructure is made of 18mm thick prelaminated particle board with all exposed edges sealed with 2mm thick Rehau PVC edge banding tape pasted with Jowatt glue on through feed edge banding machines .One side of the table Table has a provision for wire manager caps at top. The entire structure has to be built with knock down Mechanism. All hardware used to be sourced from reputed manufacturers such as EBCO, Haffle or equivalent . The board shall be sourced from reputed manufacturers and shall also be treated for termites to increase life. The drawers should be provided with bottom rail channels and the file drawer should be balanced with Telescopic channel with weight bearing capacity of 10 kgs. Keyboard tray and CPU Trolley has to be provided which is made in CRCA sheet duly powder coated.All surfaces of table pasted with 1 mm thick decorative lamination All hardware including lockes used to be sourced from reputed manufacturers such as EBCO, Hafflle, Hettich or equivalent including providing and fixing. one set consisting of = one main table, one side table, one drawer pedestal unit, one CPU trolley and one Keyboard.	12,647.00	1	12,647.00
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5	Fix Stackable Chair (ID-04): The understructure should be made of 19 mm dia round Stainless steel pipe of 304 grade of 1.6 mm thickness duly welded by Tig welding fitted with PP bushes at the bottom.The seat and back will be made of virgin polypropylene imported italian design. The overall height of the chair should be 840 mm from floor level . The seat size should be 400mm. All steel structural components shall be processed and made from virgin material sourced from SAIL/ TataSteel/ Jindals.	2,024.00	20	40,480.00
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6	Student Chair with Tablet (ID-06): The understructure should be made of eye shape pipe 30mm x 15mm x 16 gauge, 19 mm dia round MS pipe of grade of 1.6 mm thickness duly welded by Tig welding fitted with PU cladding on Arms, Writing Tablet in BSI side edge banding with Half Table with all PP bushes at the bottom.The seat and back will be made of virgin polypropylene. All structural components shall be processed and made from virgin material sourced from SAIL/ TataSteel/ Jindals.. HANDLE PU Moulded handle, commerical ply tablet, teb. Mech seat Sze: 470 mm(w)x 440mm(d) back size: 460mm(w)x 330mm(d) seat height: 460 mm top to floor height: 780mm handle out to out: 550 mm	2,866.00	72	206,352.00
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BOQ ITEM NO	DESCRIPTION	Rates		Amount
7	Executive Revolving Chair (ID-02): Providing & fixing of Mid back revolving chairs with fabric upholstered.The chair seat & back is covered with high quality fabric of 400 GSM and of Rs 500 per meter. Seat & Back made up of metal frame made in 19.04 mm dia 16 gauge MS. MS flat paii 25x8 mm thick, bright bar 6 mm is welded in MS back frame tube which is connected to the base . Chair shall be ergonomically comfortable for every point of view. Seat & back provided with PU e moulded with density of 50 +/- 2 kg/m3 and Hardness of 20 +/- 2 on Hampden machine at 25% compression. The armrest should be designed in a manner so as to be fitted to the chair with bolts without any help of connectors. defining comfort with PU Sleek shape arms for extra comfort .Providing Center tilt, 360 degree with single point & multilocking mechanism. The sheet of the mechanism is 2 mm thick of MS CRCA Grade. The pneumatic height adjustment of 10.0 cm and the Pump should be as per Bifma 5.1 standards. All MS components shall be processed and made from virgin material sourced from SAIL/ TataSteel/ Jindals. The powder coated components shall be tested on regular basis for Scratch resistance test of 4kgs & for Impact resistance test for 150kgs/cm. Following type of tests shall be applied on the chair i.e. 1.Static load applications; 2.Dynamic load applications. Injection moulded Providing 660 mm dia five pronged Nylon base reinforced with MS flat/Strip with minimum 10mm x 3mm , tested up to 1200 kg impact load to evaluate the the stability of the pedestal to withstand stress. Castors provided with the base is 100% nylon made.With plastic bellow cover to cover the gas lift. seat Sze: 460 mm(w)x 450mm(d) back size: 450mm(w)x 450mm(d) seat height: 460 mm top to floor height: 900mm handle out to out: 470 mm	3,878.00	7	27,146.00
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8	Executive Non-Revolving Chair (ID-07): Providing & fixing of Mid back Fix chairs with fabric upholstered.The chair seat & back is covered with high quality fabric of 400 GSM and of Rs 500 per meter. Seat & Back made up of metal frame made in 19.04 mm dia 16 gauge MS. MS flat paii 25x8 mm thick, bright bar 6 mm is welded in MS back frame tube which is connected to the base . Chair shall be ergonomically comfortable for every point of view. Seat & back provided with PU e moulded with density of 50 +/- 2 kg/m3 and Hardness of 20 +/- 2 on Hampden machine at 25% compression. The armrest should be designed in a manner so as to be fitted to the chair with bolts without any help of connectors. defining comfort with PU Sleek shape arms for extra comfort. All MS components shall be processed and made from virgin material sourced from SAIL/ TataSteel/ Jindals. The powder coated components shall be tested on regular basis for Scratch resistance test of 4kgs & for Impact resistance test for 150kgs/cm. Following type of tests shall be applied on the chair i.e. 1.Static load applications; 2.Dynamic load applications.Made of Round pipe 25.4 mm2 mm thick. seat Sze: 460 mm(w)x 450mm(d) back size: 450mm(w)x 450mm(d) seat height: 460 mm top to floor height: 885 mm handle out to out: 550 mm	1,939.00	33	63,987.00
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9	Workshop stool for sitting without back (ID-10): Seat made of 12 mm thick PLY hot pressed and treated with anti termite treatment to increase life of the PLY. riveted with star nut for Polyurethane foam 50 mm TH. covered with good quality leatherite and shall be moulded with density of 50 +/- 2 kgInjection moulded cushions in seat with ergonomic contouring. Providing 660 mm dia five pronged made of stainless steel 304 grade crome plated base, tested up to 1200 kg impact load to evaluate the the stability of the pedestal to withstand stress. Castors provided with the base is 100% nylon made with plastic bellow cover to cover the gas liftseat size: 400 mm dia Top to floor to top height 450 mm	1,855.00	18	33,390.00

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10	Office Table Faculty Room (ID-08): Executive table with table top made of 19mm thick ISI marked Commercial board with user-visitor edge in 1mm thk Laminate duly pasted of Duro/ Merino/ Greenlam make and clad with 1mm thick backing laminate and having flat edge duly sealed with 2mm thick Rehau edge band Duly pasted with Jowatt glue on through feed edge bander machine. the edges of the PVC band to be champherd properly. The modesty of the table shall be made of 19mm thick commercial board clad with 1.0mm thick ISI marked decorative laminate on both sides. Its edge shall be sealed with 2 mm thick Rehau edge band duly pasted with Jowatt glue both sides. Its edge shall be sealed with 2 mm thick thick Rehau edge band duly pasted with Jowatt glue on through feed edge bander machine. the edges of the PVC band to be champherd properly. The board shall be sourced from reputed manufacturers (Duro/ Green/ Merino) and shall also be treated for termites to increase life. Completely knock-down design to reduce transit damage. It is tested as per BIFMA standards for Functionality, Reliability, and Stability. 2 Grommet Holes for routing cables. 0-20mm adjustable levelers. The complete hadware like channels , handles , mini fixes , levellers and others are to be used of EBCO brand. Table with arrangement of wire manager on side table. The legs made up of combination of met stainless steel of 304 grade of horizontal pipe and mild steel used as vertical pipe to give decent looks. The mild steel is properly powder coated with 7 tank treatment. Table top is rested on stainless steel frame of 304 grade for steay usage. The round pipe used is of size 38mm dia x 1.6 mm thick. The rubber bush of the legs is covered with stainless steel cap. Side table size 900x720x450mm with openable shutter and two shevel with 18 mm thick laminated board. pedestal unit with three drawers. Height: 750 mm Top Size: 1500 x 900 mmm	8,431.00	6	50,586.00
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11	PODIUM - Lecturer Table (ID-12): SIT of podium, the top & base (size 610mm x 458mm both) shall be made of 19mm thick prelaminated board both side finished with lamination as approved by architect. The Top shall be duly edged with 2mm thick Rheau edge duly pasted with Jowatt glue on three sides while the bottom end of the top will be lipped by 12mm x 38mm rubber wood beading projected above the surface & full round moulding. The bottom shall be duly edged 2mm thick Rheau edge duly pasted with Jowatt glue on all sides. Two vertical square hollow SS pipess (grade 304) 50mm x 50mm shall be (without any joint) fixed over the base made of prelaminated board with equal spacing from the edge of the base. The top shall be fixed on the top of the vertical pipe. Both the vertical SS pipes shall be connected with horizontal SS flat (62mm x 3mm) recessed 3mm & projected 25mm beyond the vertical pipes with slots for screwing the system to the top. The bottom shall aslo be fixed in a similar fashion as the top. The SS component shall be buffed, finished & 304 grade PP bush shall be fixed at the bottom. A clear acrylic panel 8mm thick shall be mounted over the SS pipes 12.5mm inside the outer edge with inscribed logo shall be fixed using 20mm SS spacer studs. The top shall be fixed with 25mm SS spacer. The top and bottom shall contain XLR connectors & microphone connections with slots & fixed in top and bottom. The wire shall be pulled through hollow pipe and shall be concealaed. The top shall be 6 degree inclined. The height of the podium from the front side is 1168mm and from the rear side 1118mm. All the SS items/ structure has to be deeply buffed to give it matt finish. All steel structural components shall be processed and made from vcirgin material sourced from SAIL/ TataSteel/ Jindals or equivalent manufacturer.	7,588.00	2	15,176.00
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BOQ ITEM NO	DESCRIPTION	Rates		Amount
12	Bunk Bed (ID-11): Twin bunk bed in MS frame of square pipes.a)Vertical Leg Structure :Wall thickness 1.2mm CRC Square Tube, Size: 50mm X 50mm b)Supporting Structure of horizontal: Wall thickness 1.2mm CRC Square Tube, Size: 50mm X 25mm c)Other Joining horizontal structure : Wall thickness 1.2mm CRC Square Tube ,Size: 25mm X 25mm. Stair (for upper level):Wall thickness 1.2mm CRC Square Tube ,Size: 50mm X 25mm & 25mm X 25mm having 3 steps. All the members shall be duly powder coated in black colour. Minimum Thickness of powder coating shall be 7 Microns. All MS joints shall be Mig Welded. 12mm ISI standard ply ,oil painted of Green/ Century/ Duro for mattress support shall be provided. The bed needs to be made with knock down detail. The knock down parts shall be assembling on site.:- 1800L x 900W x 1600H Mattress not included	18,548.00	36	667,728.00
13	Green Board Sliding(ID-13)	-		-
	Supply and installing of writing board with sliding tracks and aluminium rectangular sections Board of size 1200 x 1800 mm with at least 2/3 pieces of white chalkboard combination	16,862.00	3	50,586.00
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14	Computer Room Table (ID-17): The table shall be supplied with steel members duly welded and rigidly fixed table top and provided with a slideable keyboard tray, modesty panel and footrest. The frame shall comprise of hollow rectangular M.S. section of size 50x25x1.6 mm thickness. Two side member of the frame identical in shape shall be joined with welding at bottom with a footrest (hollow rectangular M.S.section of size 50x25x1.6mm thickness) angularly welded, and at the top in front side welded with a angle size 17x17x3mm. And at the back on the top side of the frame, a modesty panel of size 200x17x0.8mm thick CRC sheet shall be welded. Thus making the frame rigid in construction. The keyboard tray shall be of size 710mm(front width)x 300mm(depth) approximately is to be provided with end fittings mad from minimum 2mm thick MS steel mounted on either side and the keyboard tray shall be easily slideable, provided with two telescopic channels with balls. Modesty panel of size 200x17x0.8mm thick of length made from CRC sheet conforming to IS:513/2008 covering full backside of the said frame & shall be suitably welded with two sides members of the frame, in such a way that it"s top surface having 17mm width, flushes with top surface two side members and joining front angle member. Four level screws, having smooth bottom flat surface of minimum 50mm diameter, shall be welded under the bottom of two said side members of the frame; capable to adjusting level up to 10mm in height. All exposed steel sections shall be painted with black in colour with powder coating 40-50 micron thickness. Table top shall be of MDF board or pre-laminated particle board having dimensions as specified in the description(750x400) with tolerance of+/-5mm in length and width. The top shall be extended 50mm approximately on all sides over the steel frame. Height of the table shall be 750mm+/-10mm from the floor of the top surface. The MDF board used for top, keyboard tray should be of minimum density of 750kg/m3 and shall be of 18 mm thickness with laminated sheet of 0.6mm thick. Thew top shall be of grey colour. Bottom side of the board should have balancing sheet of requisite thickness of white or of same colour as top laminate. Only ISI marked MDF board and laminate should be used. Pasting of laminates should be done with the help of post forming machine having air pressure & temperature control. Size:- 1200mm Lx 750mm D x 750mm H.	5,480.00	18.00	98,640.00
	Total Estimated cost for One Site			1,461,478.00
	Total Estimated cost for 06 Nos			8,768,868.00