

Upgradation of Infrastructure Activities in MSME Technology Centres at FFDC, Kannauj (UP) SH: (Furniture work)

TECHNICAL SPECIFICATIONS

S.No.	Item	Specification	Ref. Image	Unit	Qty
1	Executive Table	Supplying & Placing Modular table in completely knock down conditions with an overall size 1900mm X 1800mm X 750mm that is to be assembled at site. The top shall have the size 1700mm X 900mm made up of 45mm thick Pre-laminated particle board. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The table top shall be supported on 75mm Peg mounted over side storage unit and fixed pedestal. The end wall of the table on the side shall be topped by gable end. The gable end shall be made up of 45mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It shall be 18mm thick Pre-laminated particle board in linear shape with appropriate PVC edge banding connected with both end. The table shall have side unit for storage purpose with an overall size 1800mm X 510mm X 625mm. The side unit shall be made up of Pre-laminated particle board with top and side 45mm thick and drawer base 9mm thick & other parts 18mm thick like shutter, back, facia, etc. It shall have 3 drawer and 2 sliding shutter. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. A hanging pedestal shall be provided with an overall size 455mm X 685mm X 485mm. The pedestal shall be made up of Pre-laminated particle board. Pedestal side, back, facia shall be 18mm thick & drawer base shall be 9mm thick. The pedestal shall have 2 nos. of drawer. The drawer shall be operated with SS handle and easily close & open with the assistance of sliding channels to enable operation. The drawer shall have central locking mechanism in which all the drawer shall be locked with one single key.		Nos.	6

2	Moduler Workstation	Providing and placing workstation table in completely knock down conditions with an overall size 1200mm X 660mm X 1200mm that is to be assembled at site. The work top shall have the size 1200mm X 600mm made up of 25mm thick Pre-laminated particle board .. The profile of the top shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 525mm X 350mm. The tray shall be operated on keyboard channel. The workstation shall have panel based partition of 60 mm thick with overall height 1200mm. The partition shall be linear in profile and provided in the front side of user as well as on the both sides of the user. The top trim, top bar, mid bar, vertical bar, raceway, skirting shall be made up of aluminium extrusions (pre-treated) and duly powder coated with 40µ-60µ thick. The trims shall have the size 60mm X 19mm with 1.5mm thick covered with Die cast end caps on joints 2 ways, 3 ways & 4 ways (L-cover for corner, T-cover for middle section wherever required). The aluminium raceway shall be situated below the worktop with an overall size 116mm(H) X 60mm(D) with 1.4 mm cover thickness and 2mm back thickness as per requirement of inlaying the electrical management and carrying the wire horizontally. The exposed vertical and horizontal faces of the frames shall be snap fitted with trims. There shall be soft-board (with fabric) and marker board provided at front of the user. Laminated top tile and bottom tile shall be situated at both sides of the user and below the work top respectively. The Partition shall have concealed wire management capabilities and should be engaged for responsive and safe operations of power, telecommunications and data (LAN) and has separate components for electrical, data and telephone cables having adequate capability of both the vertical and horizontal wire movements. Slots/cut-outs should be given on raceways to fix all electrical and data points. Zinc coated small top support brackets shall be fixed on the partition for table top support. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be situated at bottom. Adjustable leveller shoe shall be provided at bottom of the partition to avoid scratches on the floor A nylon castor based CPU unit shall be provided with an overall size 468mm X 284mm with 18mm thick Pre-laminated particle board.	 Without Pedestal	Nos.	25
3	Executive Table	Supplying & installing of table with ERU and pedestal having following specifications. The table shall be supplied in completely knock down conditions with an overall size 2350mm X 2100mm X 750mm that is to be assembled at site. The worktop shall have the size 2200mm X 940mm made up of 50mm thick Medium Density Fibre-board with approved laminate and finish as per approved shade. The top edge should cladded with 1.2mm thick extruded aluminium section all around the worktop and die cast end caps on joints for better strength of the table. The profile shall be in rectangle shape and enclosed by single sided flapper box that houses telephone cable, data and power connection discretely. The top shall be supported on gable end at one side and round peg mounted on ERU unit at another side. The end wall of the table on the side shall be topped by gable end. It should be 50mm thick Medium Density Fibre-board linear in profile and the edges cladd with extruded aluminium profile. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick particle board and shall be linear in profile with round corners and the edges shall be sealed with 0.8mm thick PVC edge banding. The table shall be supplied with credenza unit with an overall size 1980mm X 400mm X 635mm that shall be constructed from Pre-laminated particle board with 25mm thick top and other parts 18mm thick like shutter, back, fascia etc. It shall have 3 drawers and 2 door shutter. The drawer and shutter shall be operated with ball bearing sliding channel and soft close concealed crank hinge. G-profile Aluminium handle shall be supplied for ease of opening. The ERU unit shall be mounted on 38mm Dia. Aluminium round leg. Fixed pedestal shall be supplied with an overall size 380mm X 400mm X 600mm. The pedestal shall be made up of Pre-laminated particle board. Top shall be 25mm thick, side, back, fascia shall be 18mm thick. The pedestal shall have 2 nos. of drawer having same. The drawer shall be operated with ball bearing sliding channel having load capacity 35Kg to enable smooth operation. Aluminium handle shall be provided for ease of opening. For locking provision central lock mechanism shall be given in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted on Aluminium round leg.		Nos.	1

4	Side Unit	Support for the table. It should be 18mm thick particle board and shall be linear in profile with round corners and the edges shall be sealed with 0.8mm thick PVC edge banding. The table shall be supplied with credenza unit with an overall size 1980mm X 400mm X 635mm that shall be constructed from Pre-laminated particle board with 25mm thick top and other parts 18mm thick like shutter, back, facia etc. It shall have 3 drawers and 2 door shutter. The drawer and shutter shall be operated with ball bearing sliding channel and soft close concealed crank hinge. G-profile Aluminium handle shall be supplied for ease of opening. The ERU unit shall be mounted on 38mm Dia. Aluminium round leg.		Nos.	1
5	Office Table	Supplying & Placing Modular table in completely knock down conditions with an overall size 1700mm X 1650mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the size 1800mm X 750mm made up of 25mm thick particle board with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape with front and back full round post form edges and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on keyboard channel. The table top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. The gable end shall be made up of 25mm thick particle board and profile shall be in linear shape with front and back full round post form and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It shall be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table shall have side unit for storage purpose with an overall size 900mm X 450mm X 750mm. The side unit shall be made up of Pre-laminated particle board with top 25mm thick and other parts 18mm thick like shutter, back, side panel etc. It shall have 2 sliding shutter which slides over sliding rail track. The shutter shall be operated with SS handle and Multi-purpose (MP) locking mechanism. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board. Pedestal side, back, top, facia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board and mounted over 65mm injection moulded nylon castor.		Nos.	1

6	Executive Table	Supplying & Placing Modular table in completely knock down conditions with an overall size 1700mm X 1800mm X 750mm that is to be assembled at site. The top shall have the size 1500mm X 900mm made up of 45mm thick Pre-laminated particle board .. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The table top shall be supported on 75mm Peg mounted over side storage unit and fixed pedestal. The end wall of the table on the side shall be topped by gable end. The gable end shall be made up of 45mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It shall be 18mm thick Pre-laminated particle board in linear shape with appropriate PVC edge banding connected with both end. The table shall have side unit for storage purpose with an overall size 1800mm X 510mm X 625mm. The side unit shall be made up of Pre-laminated particle board with top and side 45mm thick and drawer base 9mm thick & other parts 18mm thick like shutter, back, facia, etc. It shall have 3 drawer and 2 sliding shutter. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. A hanging pedestal shall be provided with an overall size 455mm X 685mm X 485mm. The pedestal shall be made up of Pre-laminated particle board . Pedestal side, back, facia shall be 18mm thick & drawer base shall be 9mm thick. The pedestal shall have 2 nos. of drawer. The drawer shall be operated with SS handle and easily close & open with the assistance of sliding channels to enable operation. The drawer shall have central locking mechanism in which all the drawer shall be locked with one single key.. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		Nos.	1
7	Back Unit	The table shall have side unit for storage purpose with an overall size 1800mm X 510mm X 625mm. The side unit shall be made up of Pre-laminated particle board with top and side 45mm thick and drawer base 9mm thick & other parts 18mm thick like shutter, back, facia, etc. It shall have 3 drawer and 2 sliding shutter. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. en with the assistance of sliding channels to enable operation. The drawer shall have central locking mechanism in which all the drawer shall be locked with one single key.		Nos.	1

8	lab Stool	Lab Stool Supplying and placing Counter Chair. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ with blue crape fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of 12mm thick hot pressed plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ with blue crape fabric tapestry 0.6mm thick and 235 GSM. The seat and back shall be fixed with plywood and HR steel sheet and the armrest shall be used PP arm completely joint with seat. 360 degree revolving mechanism. The pneumatic seat height adjustment for healthy seating, user can adjust seat height upto 120mm . Footrest shall be provided of MS chrome plated round pipe of Dia 20mm with 1.5mm thick having pitch circle Dia 465mm. The Pedestal shall be made up of MS CRCA powder coated 50µ~60µ DFT having pitch circle Dia 650 mm fitted with 5 nos. 50mm twin wheel castors which shall be made of injection moulded black nylon 30% glass filled having self lubricating property for friction free movement at load tested capacity 1100 Kg . The seat size shall be 435±10 mm (D) X 460±10 mm (W) and back size shall be 385±10 mm (W) X 445±10 mm (Ht) from seat. Overall height shall be = 1135±10 mm, overall depth = 650±10 mm & overall width = 560±10 mm.		Nos.	35
9	Wooden Storage	Supplying & placing storage unit with an overall size 900mm X 450mm X 2100mm. It should be made up of Pre-laminated particle board .. All profile i.e. side, back, top, shutter, shelf, skirting shall be 18mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle. There shall be buffers provided at the bottom to avoid scratches on the floor. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom.		Nos.	8
10	Conference Table	Supplying & Placing conference table in completely knock down conditions with an overall size 6600mm X 1500mm X 750mm that is to be assembled at site. The worktop shall be made up of back to back 36mm thick Pre-laminated particle board .. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. Single sided flapper box shall be enclosed at table top that houses video, audio, LAN and data and power connection discretely. Wire carrier shall be provided below the table top for power connection made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. The table top shall be supported on MS powder coated rectangle pipe having cross-section area 40mm X 20mm with 1.6mm thick. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. The table understructure shall have SS 202 grade pipe frame leg having cross-section area 80mm X 20mm. Bottom tile shall be situated in between the leg with fabric. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between..		Nos.	1

S.No.	Item	Specification	Ref. Image	Unit	Qty
11	Visitor Chair	Providing and supplying a visitor chair with ergonomic design for user comfort & shall have aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood and the back shall be supplied with metal pipe, inserted between backrest. The chair shall be padded with high resilience polyurethane foam 50mm thick having density 40kg/m³ in seat and 12mm thick having density 23Kg/m³ in back. The seat and back shall be upholstered with leatherite tapestry 0.8±0.1mm thick, 535 GSM and breathable mesh tapestry behind the backrest. MS chrome plated pipe frame shall be provided on both side of seat and back with size 25mm X 10mm. The backrest shall be supplied by keeping the natural curvature of the spine which helps to provide back support. The armrest shall be used black integral polyurethane arm mounted on CRCA chrome plated pipe having size 40mm X 10mm completely joint with seat and back with the assistance of Allen key screw. Chrome plated round bend pipe of dia. 9mm shall be provided behind the backrest of the chair and welded with main frame. The frame structure shall be cantilever support type made of MS CRCA chrome plated round pipe of dia. 25.4mm with 2mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The seat size shall be 500±10 mm(W) X 510±10 mm(D) and back size shall be 450±10 mm(W) X 540±10 mm(H) from seat & overall height = 980±10 mm, overall width = 560±10 mm.		Nos.	18
12	Center Table	Supplying & placing centre table with an overall size 1200mm X 600mm X 430mm. The top of the table shall be made up of 25mm thick MDF board. The top profile shall be in rectangular shape. The under structure shall consist of MS Chrome plated pipe frame having cross-section area 30mm X 15mm X 1.5mm (T). There shall be shoe provided at the bottom to avoid scratches on the floor.		Nos.	1
13	Corner Table	Supplying & placing corner table with an overall size 600mm X 600mm X 430mm. The top of the table shall be made up of 25mm thick MDF board. The top profile shall be in square shape. The under structure shall consist of MS Chrome plated pipe frame having cross-section area 30mm X 15mm X 1.5mm (T). There shall be shoe provided at the bottom to avoid scratches on the floor.		Nos.	1

14	High Back Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support as well as adjustable headrest. The chair shall be supplied With 2-Way Adjustable PU Arm which is completely joint with seat. For seating durability the chair shall have knee tilt 360 degree revolving mechanism having Single position locking and tilt tension adjustment with anti-shock feature. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm . The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon. The seat size shall be 465±10 mm(W) X 500±10 mm(D) and back size shall be 780±10 mm(H) from seat & overall height = 1245±10 mm.		Nos.	1
15	Mid Back Chair	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied With 2-Way Adjustable PU Arm which is completely joint with seat. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in 30% glass filled nylon. The seat size shall be 465±10 mm(W) X 500±10 mm(D) and back size shall be 555±10 mm(H) from seat & overall height = 960±10 mm.		Nos.	29
16	Visitor Chair	Providing and supplying medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 18mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with adjustable lumbar support. The chair shall be supplied with injection moulded polypropylene fixed arm completely joint with seat. The frame structure shall be cantilever support type made of MS CRCA chrome plated round pipe of dia. 25.4mm with 2mm thick. The seat size shall be 465±10 mm(W) X 500±10 mm(D) and back size shall be 555±10 mm(H) from seat & overall height = 960±10 mm.		Nos.	20

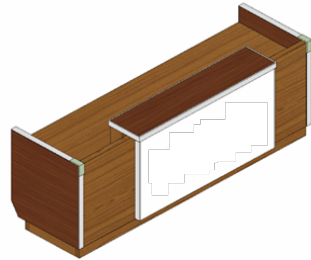
17	High Back Cahir	Providing and supplying a high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood and the back shall be made of metal insert pipe frame padded with high resilience polyurethane foam 40mm thick having density 40kg/m³ in seat and 19mm thick having density 23kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick. The backrest shall be made by keeping the natural curvature of the spine which helps to provide full back support as well as head support. The chair shall be supplied with chrome plated metal arm with black integral polyurethane top. For seating durability the chair shall have synchro knee tilt 360 degree revolving mechanism having four position locking and tilt tension adjustment with anti-shock feature which provides back strength for the chair. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm. The Pedestal should have five legged MS CRCA chrome plated having pitch circle dia. 660 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon. The seat size shall be 480±10 mm(D) X 475±10 mm(W) and back size shall be 465±10 mm(W) X 700±10 mm(H) from seat. Overall height shall be = 1160±10 mm, overall depth = 600±10 mm & overall width = 550±10 mm.		Nos.	6
18	Corner Table	Supplying & placing center table with an overall size 600mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board. The profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The understructure shall consist of SS 202 grade pipe frame with shiny chrome finish having cross-section area 40mm X 20mm. There shall be PPCP shoe provided at the bottom to avoid scratches on the floor.		Nos.	2
19	Office Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D'. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom.		Nos.	2

20	Sofa 3 Seater	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and having density 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam thick having density 32Kg/m³. SS strip shall be provided on front of the arm having length 515mm with cross-section area 14mm X 4mm. The structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have shiny chrome finish SS leg with height 100mm and 10mm thick. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 500±10 mm(D) X 1480±10 mm(W), seat height = 430±10 mm, overall width = 1625±10 mm, overall depth = 750±10 mm & overall height = 700±10 mm.		Nos.	2
21	Center Table	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board. The profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The understructure shall consist of SS 202 grade pipe frame with shiny chrome finish having cross-section area 40mm X 20mm. There shall be PPCP shoe provided at the bottom to avoid scratches on the floor.		Nos.	1
22	High Back Chair	Supplying and placing ergonomically designed, comfortable & aesthetically appealing High back chair. The seat shall be made of 15mm thick hot pressed plywood with HR polyurethane foam 50mm thick having density 40kg/m³ upholstered with black leatherite tapestry with 0.8mm thick and 535 GSM and the back shall be supported by metal insert MS CRCA chrome plated with HR polyurethane foam 12mm thick having density 23kg/m³ upholstered with black leatherite with 0.8mm thick and 535 GSM. The armrest shall be used cushion arm completely joint with seat and back. The chair shall have synchro tilt revolving mechanism with single position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height upto 120mm. The Pedestal shall be made up of MS CRCA chrome plated having pitch circle Dia 700 mm fitted with 5 nos. 50mm twin wheel castors which shall be made of injection moulded black nylon 30% glass filled having self lubricating property for friction free movement. The Seat size shall be 490±10 mm(W)X490±10 mm(D) and back size shall be 640±10 mm(H) from seat & overall height = 1095±10 mm.		Nos.	1

23	High Back Chair	Supplying and placing ergonomically designed, comfortable & aesthetically appealing High back chair. The seat shall be made of 15mm thick hot pressed curved plywood upholstered with high resilience polyurethane foam 50mm thick having density 40kg/m³ with khaki leatherite tapestry 0.8mm thick and 535 GSM and the back shall be supported by metal insert MS CRCA frame upholstered with high resilience polyurethane foam 12mm thick having density 23kg/m³ with khaki leatherite tapestry 0.8mm thick and 535 GSM with contoured lumbar support which helps to provide full back support and maintain the natural curvature of the spine. Headrest shall be provided for comfort of head with leatherite tapestry. The armrest shall be used MS CRCA chrome plated with PU arm completely joint with seat and back. The chair shall have knee tilt 360 degree revolving mechanism with four position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height upto 100mm . The Pedestal shall be made up of MS CRCA chrome plated having pitch circle Dia 650 mm fitted with 5 nos. 50mm twin wheel castors which shall be made of injection moulded black nylon 30% glass filled having self lubricating property for friction free movemen . The Seat size shall be 485±10 mm(W)X520±10 mm(D) and back size shall be 740±10 mm(H) from seat & overall height = 1150±10 mm.		Nos.	2
24	Office Table	Supplying & Placing executive table in completely knock down conditions with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The profile shall be in rectangle shape with one side post forming edges. The top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 18mm thick particle board and profile shall be in linear shape. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It shall be 18mm thick particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board . Pedestal side, back, top, fascia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor... The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		Nos.	2
25	Visitor Chair	Providing and supplying a Study Chair, PU Arm, Black Powder Coated 4 lag Pipe Frame, Fabric Tapestry with ergonomic design, user comfort & aesthetically appealing. The seat and back shall be made of 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 40mm thick having density 40kg/m³ in seat and 40mm thick having density 32Kg/m³ in back. The same shall be upholstered with crape fabric tapestry 0.6mm thick and 235 GSM. The seat and back of chair shall be supplied with polypropylene beam on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60µ thick powder coated HR steel spine. The armrest shall be made of PU integral polypropylene arm mounted on powder coated round pipe frame completely joint with seat and back. The frame structure shall be four lag support type made up of MS CRCA powder coated round pipe of Dia. 25.4mm with 1.6mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor . The seat size shall be 480±10 mm(W) X 450±10 mm(D) and back size shall be 380±10 mm(W) X 400±10 mm(H) from seat & overall height = 750±10mm, overall depth = 500±10 mm.		Nos.	28

26	High Back Chair	Providing and supplying a High back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back frame shall be made up of the wooden structure padded with high resilience polyurethane foam (50+25+30)mm thick having density (40, 32 & 32)kg/m³ in seat and (30+25)mm thick having density (32, 32)kg/m³ in back. The same shall be upholstered with leatherette tapestry 0.8±0.2mm thick and 535 GSM. The backrest shall be made by keeping the natural curvature of the spine for lumbar support which helps to provide full back support. Seat and back shall be covered with polished wooden at both side for decorative appearance. The chair shall be supplied with wooden cushion arm having melamine polish. For seating durability the chair shall have torsion bar 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm. The Pedestal should have metal insert CRCA covered with natural wood having pitch circle dia. 630 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon. The seat size shall be 500±10 mm(D) X 510±10 mm(W) and back size shall be 520±10 mm(W) X 600±10 mm(H) from seat. Overall height shall be = 1060±10 mm, overall depth = 720±10 mm & overall width = 650±10 mm.		Nos.	1
27	Desklet Chair With Storage	Providing and supplying student/training room chair with ergonomic design for user comfort. The seat and back shall be made of 15mm and 12mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ in seat and 40mm thick having density 32Kg/m³ in back. The same shall be upholstered with fabric tapestry 0.6mm thick and 235 GSM and PVC lipping also provide with seat and back. The seat and back shall be arrested together with MS powder coated HR steel spine. The armrest shall be used black integral polyurethane arm completely joint with metal frame. The chair shall be supplied with folding writing pad made of 18mm thick particle board with 0.8mm edge lipping. Book-try shall be provided under the seat made of powder coated round wires. The frame structure shall be cantilever support type made up of MS/CRCA powder coated with 50-60μ (DFT) thick round pipe of dia. 25.4mm with 2mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The seat size shall be 460±10mm (D) X 475±10mm (W) and back size shall be 450±10mm (W) X 410±10mm (H) from seat. Overall height shall be = 820±10 mm, overall depth = 665±10 mm & overall width = 540±10 mm.		Nos.	90
28	Mid Back Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience polyurethane foam 40mm thick having density 40kg/m³ with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of injection moulded polypropylene net cover with breathable mesh tapestry. The backrest shall be made by keeping the natural curvature of the spine with lumbar support as well as head support. The seat and back shall be arrested together with 50-60μ thick HR steel spine and the armrest shall be used P.U Adjustable Button Operated PP Cladding completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with one position Locking. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm . The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 700 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled,. . The seat size shall be 450 x 500mm(W x D) Foam Net in Seat with Polyurethane Foam and back size shall be 515 x 585mm (W x H) Mesh Back in Black PP Structure. Overall height shall be = 1100±10 mm, overall depth = 770±10 mm, overall width = 770±10 mm.		Nos.	2

29	Sofa 3+1 Seater	Supplying and placing a single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m³. The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 620±10 mm(W), seat height = 440±10 mm, overall width = 920±10 mm, overall depth = 965±10 mm & overall height = 825±10 mm. Supplying and placing a three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m³. The complete structure shall be fully upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall be supported by pipe frame leg of SS shiny chrome finish having length 875mm and height 100mm with cross-section area 67mm X 13mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 600±10 mm(D) X 1810±10 mm(W), seat height = 440±10 mm, overall width = 2110±10 mm, overall depth = 965±10 mm & overall height = 825±10 mm.		Nos.	1
30	Mid Back Chair	Providing and supplying a medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood and the back shall be supplied with inserted pipe frame. The chair shall be padded with high resilience polyurethane foam 50mm thick having density 40Kg/m³ in seat and 12mm thick having density 23Kg/m³ in back. The same shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM and breathable mesh tapestry behind the backrest. MS chrome plated pipe frame shall be provided on both side of seat and back with size 25mm X 10mm. The backrest shall be made by keeping the natural curvature of the spine which helps to provide full back support. The armrest shall be used black integral polyurethane arm mounted on CRCA chrome plated pipe having size 40mm X 10mm completely joint with seat and back with the assistance of Allen key screw. A chrome plated round bend pipe of dia. 9mm shall be provided behind the backrest of the chair and welded with main frame. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm . . The pedestal shall have five legged CRCA chrome plated having pitch circle dia. 650mm fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled. The Seat size shall be 490±10 mm(W) X 520±10 mm(D) and back size shall be 450±10 mm(W) X 535±10 mm(H) from seat & overall height = 980±10 mm, overall width = 560±10 mm & overall depth = 670±10 mm.		Nos.	18
31	3 Seater Sofa	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m³. The structure shall be upholstered with leatherite tapestry 1±0.2 mm thick. The sofa shall be supported on MS powder coated pipe frame having size 40mm X 20mm. The under structure shall consist of MS powder coated round leg with upper dia. 38mm and lower dia. 30mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 570±10 mm(D) X 1660±10 mm(W), seat height = 425±10 mm, overall width = 2020±10 mm, overall depth = 750±10 mm & overall height = 680±10 mm.		Nos.	1

32	Reception Table	Supplying & Placing Reception table in completely knock down conditions with an overall size 2400mm X 820mm X 1000mm that is to be assembled at site. The top shall have the size 2300mm X 695mm made up of 49mm thick Pre-laminated particle board .. The upper top shall have the size 1400mm X 300mm with 49mm thick. The top profile shall be in rectangle shape with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The side edges shall be covered with die casted aluminium profile. The table top and upper top shall be supported on particle board base strip. The table shall have a front panel having size 1390mm X 750mm with 49mm thick Pre-laminated particle board. A wire manager cap shall be provided on the top of the table for power connection. The end wall of the table on the side shall be topped by gable end. It shall be made up of 49mm thick Pre-laminated particle board and profile shall be in linear shape with one clipped corner and covered by Aluminium profile. There shall be buffers provided to avoid the scratches on the floor. The table shall be clad with 49mm thick modesty panel which provide structural support for the table. It should be 49mm thick pre-laminated particle board in linear shape with appropriate PVC edge banding and covered by aluminum profile connected with both end.		Nos.	1
33	Conference Table	Supplying & Placing conference table in completely knock down conditions with an overall size 4400mm X 1500mm X 750mm that is to be assembled at site. The worktop shall be made up of back to back 36mm thick Pre-laminated particle board .. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. Single sided flapper box shall be enclosed at table top that houses video, audio, LAN and data and power connection discretely. Wire carrier shall be provided below the table top for power connection made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. The table top shall be supported on MS powder coated rectangle pipe having cross-section area 40mm X 20mm with 1.6mm thick. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. The table understructure shall have SS 202 grade pipe frame leg having cross-section area 80mm X 20mm. Bottom tile shall be situated in between the leg with fabric. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between.. The board used should meet International Standard of quality, Indian Standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		Nos.	1