

Part 1 General

1.1 SCOPE OF WORK

- .1 This Bid Opportunity defines minimum design standards for the following furnishings:
 - .1 Ergonomic Task Chair
 - .2 Conference Chair
 - .3 Lab Stool
 - .4 Guest Chair
 - .5 Lunchroom Chair
 - .6 Lounge Chair

1.2 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .1 ANSI A208.1-[09], Particleboard.
- .2 American National Standards Institute (ANSI)/Business and International Furniture Manufacturers Association (BIFMA) International
 - .1 ANSI/BIFMA X5.1-11, American National Standard for Office Furnishings, General Purpose Office Chairs - Tests.
 - .2 ANSI/BIFMA X5.4, Lounge Seating
 - .3 BIFMACMD-1-[09], BIFMA Chair Measuring Device.
- .3 ASTM International
 - .1 ASTM C297/C297M-[04(2010)], Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions.
- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-44.232-[2008], Task Chairs for Office Work Environments
- .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .6 Underwriters' Laboratories Canada (ULC)
 - .1 CAN/ULC-S102-2010, Standard Method of Test for Surfaces Burning Characteristics of Building Materials and Assemblies.
- .7 Underwriters' Laboratories (UL)
 - .1 UL 1286-2008(R2011), Standard for Office Furnishings.
- .8 State of California Technical Bulletin CAL 117-2013.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for seating identified in this Bid Opportunity and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit 2 copies of WHMIS MSDS in accordance with Section D8.
- .2 Furniture Plan:
 - .1 Submit PDF of furniture plan populated with accurate sized items being provided as part of the Contractor's quotation for the Work.
 - .2 Plan must clearly identify conflicts with minimum dimensions requested on Furniture Plans F-1 and F-2 provided with Part E – Specifications of the Bid Opportunity.
- .3 Contract Administrator reserves the right to request samples of seating products included in the Bid Opportunity which are unfamiliar to the end user. These samples will be required to be delivered to the current office of the end user within 3 days of request.

1.4 CLOSEOUT SUBMITTALS

- .1 Operation and Maintenance Data: submit operation and maintenance data for furniture for incorporation into manual.
- .2 Supply part numbers of furniture to allow for replacement of worn or damaged furniture parts.
- .3 Supply instructions detailing procedures for repairing or replacing worn furniture parts.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Manufacturer's written instructions.
- .2 Storage and Handling Requirements:
 - .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect furniture from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .3 Remove all packaging from site at end of each day and at end of installation.

1.6 WARRANTY

- .1 Provide a lifetime warranty that product is free of defects in materials and workmanship including shipping, parts, labor for the repair and replacement of defective item.
- .2 Submit written assurance that replacement parts will be available for minimum of 10 years following discontinuation of product manufacture.
- .3 Ensure warranties provide for repair rather than replacement.

- .4 Mechanisms, pneumatic cylinders, arm caps, foam, glides and casters have a 12 year warranty.

1.7 SPECIFIC INFORMATION FOR CONTRACTORS

- .1 Work to the building is expected to be completed prior to the delivery of furnishings to the site.
- .2 Contractors are required to site confirm dimensions of spaces scheduled to receive furnishings prior to placing order.
- .3 Seating will be installed to three distinct areas of the building inclusive of the main floor, intermittent floor and second floor.
- .4 There is no elevator in the building. Access to the upper floor areas will be via dog leg stairs with a finished width of +/- 48".
- .5 Contractors shall confirm the clear path of travel to individual rooms and areas to ensure furniture can be moved without constraint.

Part 2 Products

2.1 MATERIALS

- .1 Products and components: to CAN/CGSB-44.232.

2.2 GENERAL INFORMATION

- .1 Information provided in the specifications is considered to be the minimum standards to meet the requirements of the user group.
- .2 Acceptable product is listed alphabetically by manufacturer and does not indicate an order of preference.

2.3 ERGONOMIC TASK CHAIR TC-1

- .1 Ergonomic task chair with upholstered seat, hard surface outer seat, upholstered or mesh back, where upholstered outer shell is plastic, synchro tilt of 2:1 ratio, adjustable lumbar support and back tension, adjustable seat, back and arms; five star base with option for hard casters for carpet and soft casters for hard surface or use on chair pads. Fabric shall be high wearing and shall meet the requirements of California Bulletin 117 as a minimum standard. Chair shall be approved for 24/7 use and rated for a weight of 300 pounds.

- .1 Overall Dimensions (+/-1")
 - .1 Width: 26 ¾"
 - .2 Depth: 21 ¾" to 24 ¾"
 - .3 Height: 37 ¼" to 42"
- .2 Backrest: (Dimensions are +/- 1")
 - .1 Frame: glass filled nylon
 - .2 Back Height measured from seat: 19"
 - .3 Back Width: 19"

- .4 Backrest-to-Seat-Angle: adjustable with minimum adjustment of 10 degrees within range of 100° to 120°. Lock in position.
- .5 Lumbar Support: adjustable by at least 2" within range of 6" - 10" above seat as measured using BIFMA CMD - 1.
- .6 Back Tension: Adjustable.
- .7 Foam: minimum of 1.2" PET foam stapled to an inner back shell.
- .3 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 16" to 21".
 - .2 Width: 20" clear.
 - .3 Depth: 18 ½" with adjustment of 2" to 4" and several lockable positions.
 - .4 Seat to back angle: 100° to 120°
 - .5 Seat pan angle: -3° to °+3° (+/-)
 - .6 Cushion: urethane foam approximately 3.8 pounds / cu. Ft. density with composite foam topper.
- .4 Armrests: (Dimensions are +/- 1")
 - .1 Supply chair with adjustable, soft "T" armrests.
 - .1 Armrest to be height, width, pivot and depth adjustable.
 - .2 Arm height to floor is 22" to 32.5".
 - .3 Height: adjust independently within a 4" range.
 - .4 Depth: 3" range.
 - .5 Width: 4 ½" range.
 - .6 Pivot adjustment: 30°
- .5 Overall Height Adjustment:
 - .1 Pneumatic Lift with 5" travel distance.
- .6 Base and Casters:
 - .1 26" five arm steel base with aluminum finish.
 - .2 2 ½" diameter dual wheel casters.
- .7 Upholstery:
 - .1 Fabric: as selected from manufacturer's standard range of fabrics at one grade above entry level. Recycled content is considered desirable.
 - .2 Fabric shall pass CAL Bulletin 117.
 - .3 Fabric shall have a minimum of 50,000 double rubs.
- .8 Controls: seat height and chair tilt tension adjustable by user of chair while seated, semi-seated or standing when chair in upright position.
 - .1 Include controls with positive action to operate and position where they cannot be activated inadvertently under normal use of chair.
- .9 Quantity and Tagging:
 - .1 Total of 30
 - .1 1 each to Foreman 1, Foreman 2, Lab Foreman, TMC Supervisor, Projects Manager, Senior Designer, Designer

1, Designer 2, Construction Coordinator, Supervisor Operations, Student 1, Student 2, Student 3, Student 4, Timings 1, Timings 2, Timings 3, Timings 4, Timings 5, Procurement, Traffic Signals Engineer, Assets Analyst, Clerk 1, Clerk 2, Records, Assets Engineer.

.2 4 to TMC

- .10 Acceptable Product:
 - .1 Allseating 'You Too'
 - .2 Haworth 'Very'
 - .3 Knoll Essentials 'EWC Pro Task Chair'
 - .4 Krug 'Aqua'
 - .5 Steelcase 'Amia'
 - .6 Teknion 'Projek'
 - .7 Teknion 'Amicus'
 - .8 Or approved equal in accordance with B7.

2.4 CONFERENCE CHAIR TC-2

- .1 Ergonomic chair with upholstered seat, mesh back with lumbar support, fixed width, height adjustable arms, swivel tilt mechanism, five star base with option for hard casters and for carpet and soft casters for hard surface or use on chair pads. Fabric shall be high wearing and shall meet the requirements of California Bulletin 117 as a minimum standard. Chair shall be approved for a weight of 300 pounds.
 - .1 Overall Dimensions (+/-1")
 - .1 Width: 26"
 - .2 Depth: 26"
 - .3 Height: 36"
 - .2 Backrest: (Dimensions are +/- 1")
 - .1 Back Height measured from seat: 19"
 - .2 Back Width: 18 ¾"
 - .3 Adjustable lumbar support.
 - .4 Tilt lock to fix chair in position from free flowing.
 - .3 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 16 ½" to 20 ¼" - range of +/- 3 ¾".
 - .2 Width: 20" clear.
 - .3 Depth: 17 ½" depending on arm location.
 - .4 Waterfall edge.
 - .4 Armrests: (Dimensions are +/- 1")
 - .1 Supply chair with height adjustable, soft "T" contoured armrests.
 - .1 Armrests to meet or exceed ANSI/BIFMA tests for strength and durability.
 - .5 Overall Height Adjustment:

- .1 Standard pneumatic Lift.
- .6 Base and Casters:
 - .1 Five arm base with aluminum finish.
 - .2 Dual wheel casters for use on carpet or chair pads.
- .7 Upholstery:
 - .1 Mesh shall be rated for a minimum of 100,000 double rubs and available in a variety of colours that will match or accentuate the seat fabrics
 - .2 Fabric: as selected from manufacturer's standard range of fabrics at one grade above entry level. Recycled content is considered desirable.
 - .3 Fabric shall pass CAL Bulletin 117.
 - .4 Fabric shall have a minimum of 50,000 double rubs.
- .8 Controls: seat height and chair tilt tension adjustable by user of chair while seated, semi-seated or standing when chair in upright position.
 - .1 Include controls with positive action to operate and position where they cannot be activated inadvertently under normal use of chair.
- .9 Quantity and Tagging:
 - .1 Total of 22.
 - .1 12 to Main Floor Boardroom
 - .2 10 to Second Floor Boardroom
- .10 Acceptable Product:
 - .1 Allseating 'Inertia' Mid Back Conference
 - .2 Haworth 'Very'
 - .3 Krug 'Aqua'
 - .4 Sit on It 'Wit' Chair
 - .5 Teknion 'Amicus'.
 - .6 Or approved equal in accordance with B7.

2.5 LAB STOOL ST-1:

- .1 Lab stool, non upholstered seat and back, height adjustable, 360° swivel, height adjustable foot ring, flip up arms desirable and five star base.
 - .1 Overall Dimensions (+/-1")
 - .1 Width: 25"
 - .2 Depth: 20 ½"
 - .3 Height: 31"to 46"
 - .2 Backrest: (Dimensions are +/- 1")
 - .1 Back Width: 18 1/2".
 - .3 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 23" to 30".
 - .2 Width: 16 3/8" clear.
 - .3 Depth: 17"

- .4 Seat to back angle: 94° to 107°
- .5 Seat pan angle: 5° (+/-)
- .4 Armrests: (Dimensions are +/- 1")
 - .1 Flip arms are desirable.
 - .1 Arm height to floor is 33" to 40".
- .5 Overall Height Adjustment:
 - .1 Pneumatic Lift with 7 3/4" travel distance.
- .6 Base and Casters:
 - .1 4" height adjustment on foot ring easily adjustable by user.
 - .2 Aluminum base.
 - .3 2 1/2" diameter dual wheel casters.
- .7 Upholstery:
 - .1 Non upholstered plastic with integral colour.
- .8 Quantity and Tagging:
 - .1 Total of 6 to Lab.
- .9 Acceptable Product:
 - .1 Haworth 'Very' Stool
 - .2 Steelcase 'Cachet' stool.
 - .3 Or approved equal in accordance with B7.

2.6

GUEST CHAIRS GC-1

- .1 Side chair with upholstered seat, mesh, polymer or upholstered back, steel frame with durable paint finish, arms, four legs with roll control casters or glides.
- .2 Overall Dimensions (+ 2")
 - .1 Width: 23 1/4"
 - .2 Depth: 23"
 - .3 Height: 34"
- .3 Backrest: (Dimensions are +2")
 - .1 Width: 16 1/2".
- .4 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 19".
 - .2 Width: 17 3/4" clear.
 - .3 Depth: 17 1/2"
 - .4 Seat to back angle: 96°
 - .5 Seat pan angle: 6° (+/-)
- .5 Armrests: (Dimensions are +/- 1")
 - .1 Soft or hard plastic contoured to provide support to arms.
- .6 Base and Casters:
 - .1 Nylon or plastic glides securely fastened to bottom of leg base or
 - .2 Roll control dual wheel casters.

- .7 Upholstery:
 - .1 Mesh shall be rated for a minimum of 100,000 double rubs and be available in a variety of colours that will match or accentuate the seat fabrics
 - .2 Fabric: as selected from manufacturer's standard range of fabrics at one grade above entry level. Recycled content is considered desirable.
 - .3 Fabric shall pass CAL Bulletin 117.
 - .4 Fabric shall have a minimum of 50,000 to 100,000 double rubs.
- .8 Quantity and Tagging:
 - .1 Total of 29
 - .1 1 to Assets Analyst
 - .2 2 to each of Foreman 1, Foreman 2, Lab Foreman, TMC Supervisor, Projects Manager, Supervisor Operations, Timings 1, Timings 2, Timings 3, Timings 4, Timings 5, Procurement, Traffic Signals Engineer, Assets Engineer.
- .9 Acceptable Product:
 - .1 Allseating 'Ayr' upholstered side chair.
 - .2 Haworth 'Very' side chair.
 - .3 Steelcase 'Reply' side chair
 - .4 Or approved equal in accordance with B7.

2.7 LUNCHROOM / TRAINING SEATING SC-1

- .1 Stacking side chair with and without arms, hard surface non upholstered seat and back, back to have flex, steel frame with durable paint finish, four legs with G12 glides.
- .2 Overall Dimensions (+ 1")
 - .1 Width: 24"
 - .2 Depth: 22"
 - .3 Height: 33"
- .3 Backrest: (Dimensions are +1")
 - .1 Width: 20".
 - .2 Height: 15 ½"
- .4 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 18".
 - .2 Width: 17" clear.
 - .3 Depth: 17"
- .5 Armrests: (Dimensions are +/- 1")
 - .1 Soft or hard plastic contoured to provide support to arms.
- .6 Base and Casters:
 - .1 glides securely fastened to bottom of leg base.
- .7 Quantity and Tagging:
 - .1 Total of 50 to Lunchroom. (14 to be stacked and stored)

- .8 Acceptable Product:
 - .1 Haworth 'Very' Seminar chair with Tetra back.
 - .2 Sit on It 'Inflex'
 - .3 Or approved equal in accordance with B7.

2.8 LOUNGE SEATING

- .1 Fully upholstered lounge chair with four post metal leg and wide armrests.
 - .1 Overall Dimensions (+ 1")
 - .1 Width: 33"
 - .2 Depth: 32"
 - .3 Height: 34 1/2"
 - .2 Backrest: (Dimensions are +1")
 - .1 Width: 23".
 - .2 Height: 20 1/2"
 - .3 Chair Seat: (Dimensions are +/- 1")
 - .1 Seat Height from floor: 16 3/4".
 - .2 Width: 21 1/2" clear.
 - .3 Depth: 20 1/2"
 - .4 Armrests: (Dimensions are +/- 1")
 - .1 Width: 5 1/2"
 - .2 Depth: 7 3/4"
 - .3 Height: 10 3/4"
 - .5 Base:
 - .1 Anodized aluminum post leg base connected to chair frame with metal to metal connections.
 - .6 Upholstery:
 - .1 Leather seat and back cushions. Remainder of chair is synthetic leather.
 - .2 Fabric shall pass CAL Bulletin 117.
 - .7 Quantity and Tagging:
 - .1 Total of 2 installed to TMC Waiting.
 - .8 Acceptable Product:
 - .1 Steelcase 'Lincoln' lounge chair
 - .2 Or approved equal in accordance with B7.

2.9 FABRICATION

- .1 Manufacture furniture to allow for dismantling and replacing of worn or defective components and recycling options following first use.
 - .1 Fabricate furniture to allow for remanufacturing or refurbishing of furniture following first use.

- .2 Seal exposed surfaces of particleboard constructed with urea formaldehyde adhesives to contain formaldehyde emissions.
- .2 Chair marking: to CAN/CGSB-44.232.
- .3 Chair labelling: to CAN/CGSB-44.232.

Part 3 Execution

3.1 SITE CONFIRMATION

- .1 Prior to placement of order the Contractor shall attend the place of Work to carry out onsite dimensioning of rooms and spaces to which the goods shall be installed.

3.2 DELIVERY

- .1 Preparation for delivery: to CAN/CGSB-44.227 and in conformance with standard commercial delivery practice.

3.3 INSTALLATION

- .1 Contractor shall make arrangements to access the site for purpose of delivery and installation
 - .1 through contacting the City of Winnipeg Contract Administrator identified in the Bid Opportunity or
 - .2 where the Prime Contractor for the Building is still carrying out Work on site through contacting the site supervisor. Contact information will be provided if required.
- .2 Contractor shall deliver the goods to the location within the building using access doors and routes as identified by the City of Winnipeg Contract Administrator.
- .3 Contractor to review locations to receive goods at the start of the installation and identify conflicts which will disallow him / her from carrying out their Work.
- .4 Contractor shall report identified conflicts [which may include but not be limited to mechanical and electrical devices mounted on walls, insufficient wall space or aisle space that could not be determined during pre order walk through) to the City of Winnipeg Contract Administrator.
- .5 Contractor shall install goods plumb and level to locations indicated on the Furniture Plans F-1 and F-2 provided with Part E – Specifications of the Bid Opportunity.

END OF SECTION