

CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY

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(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH NEW DELHI)

**TENDER FOR PROVIDING, FITTING AND FIXING
AESTHETICALLY BUILT CUSTOM MADE WOODEN
FURNITURE
FOR
NEW CAMPUS OF CSIR-INDIAN INSTITUTE OF CHEMICAL
BIOLOGY AT SALT LAKE, KOLKATA**

VOLUME – V

TECHNICAL REQUIREMENTS

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**TENDER FOR PROVIDING, FITTING AND FIXING AESTHETICALLY BUILT CUSTOM
MADE WOODEN FURNITURE FOR NEW CAMPUS OF CSIR-INDIAN INSTITUTE OF
CHEMICAL BIOLOGY AT SALT LAKE, KOLKATA**

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TECHNICAL REQUIREMENTS

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TENDER FOR PROVIDING, FITTING AND FIXING AESTHETICALLY BUILT CUSTOM MADE WOODEN FURNITURE FOR NEW CAMPUS OF CSIR-IIICB AT SALT LAKE, KOLKATA

For the work of '**providing, fitting and fixing aesthetically built custom made wooden furniture**', CSIR-IIICB intends to get the aesthetically designed custom made furniture and other interior works manufactured / fabricated / fitted and fixed. The complete work will have to be done at site. All raw materials will have to be got approved before commencing of work. The bidder will arrange for portable machinery / tools & tackles necessary for the work. The requirements are stated as under:

1.0 REQUIREMENTS

- 1.1 Teak Wood King Size Bed
- 1.2 Teak Wood Bed Side Table
- 1.3 Teak Wood Study Table
- 1.4 Teak Wood TV Unit Cabinet
- 1.5 Teak Wood Dressing Table
- 1.6 Teak Wood Wordrobe
- 1.7 Teak Wood Centre Table
- 1.8 Teak Wood Book Shelf
- 1.9 Teak Wood Computer Table
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- 1.11 Ply Wood Single Bed
- 1.12 Ply Wood Bed Side Table
- 1.13 Ply Wood Wall mounted Dressing Table
- 1.14 Ply Wood Wardrobe
- 1.15 Ply Wood Reception Table with Multiple Utility
- 1.16 Ply Wood Conference Reception Counter With Multiple Computer Work Stations & Other Facility
- 1.17 Ply Wood Suitcase Rack
- 1.18 Panel for hexagonal lighting area

2.0 DETAILED REQUIREMENTS :

2.1 Providing, fitting & fixing Teak Wood King Size Bed [2130 mm x 1830 mm x 460 mm] (7'x6'x1'6")

(Ref. Figure No.1)

1st class teak wood of approved quality

Size of King Size Bed [2130 x 1830 x 460] (7'x6'x1'6")

- a) Head Panel [50x910x1830], 1 piece; Leg Panel [50x600x1830), 1 piece; Side Rail [200x50x2130], 2 pieces & [75x50x2130], 2 pieces; Leg [60x60x2740], 4 pieces.
- b) 12 mm BWR ply-[2130x910], 2 pieces.

2.2 Providing, fitting & fixing Teak Wood Bed Side Table [450 mm x750 mm x410 mm] (1'6"x2'6"x1'4")

(Ref. Figure No.2)

1st class teak wood of approved quality

Size of table [450x750x410] (1'6"x2'6"x1'4")

- a) Leg [410x25x450], 2 pieces; [410x25x600], 3 pieces; Drawer Wood [150x25x600], 4 pieces; [150x25x410], 4 pieces; Leg Frame [50x50x150], 4 pieces; For Skirting [600x50x25], 2 pieces.
- b) 6 mm BWR ply-[910x910], 1 piece.

2.3 Providing, fitting & fixing Teak Wood Study Table [1070mm x 760 mm x 600 mm] (3'6"x2'6"x2'0")

(Ref. Figure No.3)

1st class teak wood of approved quality

Size of table [1070 x 760 x 600] (3'6"x2'6"x2'0")

- a) Leg [63x63x750], 4 pieces; Top Runner [100x25x1050), 2 pieces & [100x25x600], 2 pieces; Bottom Runner [50x25x1050], 1 piece & [50x25x600], 2 pieces; Drawer Wood [150x25x600], 8 pieces; Backside wood [460x25x600], 2 pieces; For Box preparation [610x25x750], 3 pieces; Table Top [610x25x1050], 1 piece; Drawer Bottom, 6mm ply [450x600], 2 pieces

2.4 Providing, fitting & fixing Teak Wood TV Unit Cabinet [600 mm x 910 mm x 410 mm] (2'0"x3'0"x1'4")

[\(Ref. Figure No.4\)](#)

1st class teak wood of approved quality

Size of TV Unit Cabinet [600 x 910 x 410] (2'0"x3'0"x1'4")

- a) Top [410x25x910], 2 pieces; Below Shelf [410x25x600], 1 piece; Box Side [410x25x600], 3 pieces; Shutter Wood [300x25x600], 1 piece; Drawer Wood [250x25x600], 4 pieces; [250x25x410], 4 pieces.
- b) 6 mm BWR ply-[1220x910], 1 piece.

2.5 Providing, fitting & fixing Teak Wood Dressing Table [750 mm x 910 mm x 450 mm] (2'6"x3'0"x1'6")

[\(Ref. Figure No.5\)](#)

1st class teak wood of approved quality

Size of Teak Wood Dressing Table [750 x 910 x 450] (2'6"x3'0"x1'6")

- a) Box Side [450x25x750], 2 pieces; [450x25x600], 1 piece; Table(top & bottom) [450x25x910], 2 pieces; Table top [450x25x300], 1 piece; Drawer Wood [150x25x450], 4 pieces; [100x25x450], 4 pieces; Back Side Cover [300x25x450], 4 pieces; Skirting [75x25x910], 1 piece; Molding Beat [40x25x1830], 6 pieces.
- b) 12 mm BWR ply-[2130x910], 1 piece.
- c) 6 mm BWR ply-[910x910], 1 piece.

2.6 Providing, fitting & fixing Teak Wood Wordrobe [1980 mmx 910 mm x450 mm] (6'6"x3'0"x1'6")

[\(Ref. Figure No.6\)](#)

1st class teak wood of approved quality

Size of Teak Wood Wordrobe [1980 x 910 x 450] (6'6"x3'0"x1'6")

- a) Shutter [75x40x1980], 4 pieces; [75x40x910], 3 pieces; Panel [360x25x910], 4 pieces; Moulding Beat [20x20x1980], 6 pieces; Outside Frame [100x40x2130], 2 pieces.
- b) 19 mm BWR ply-[1830x910], 3 pieces.

c) 6 mm BWR ply-[2130x910], 1 piece.

2.7 Providing, fitting & fixing Teak Wood Centre Table [510 mm x 900 mm x 450 mm] (1'8"x3'0"x1'6")

(Ref. Figure No.7)

Size of Centre Table [510x900x450] (1'8"x3'0"x1'6")

a) Size of Wood - Leg [75x75x450]- 04 pieces; Table Side (Length)- [100x40x900]- 02 pieces; Table Side (Depth) [100x40x600]- 02 pieces;

b) 12 mm glass [900x450]- 01 piece

c) 1.5" Vaccum- 04 pieces

2.8 Providing, fitting & fixing Teak Wood Book Shelf [2130 mm x 910 mm x 380 mm] (7'0"x3'0"x1'3")

(Ref. Figure No.8)

1st class teak wood of approved quality

Size of Teak Wood Book Shelf [2130 x 910 x 380] (7'0"x3'0"x1'3")

a) Frame [375x25x2130], 2 pieces; [375x25x910], 7 pieces; Double Shutter [75x30x2130], 4 pieces; [75x30x910], 4 pieces; Pannel Wood [360x25x750], 2 pieces; Drawers [150x25x450], 8 pieces; Frame Beat [910x40x2130], 2 pieces; [910x40x1070], 2 pieces.

b) 12 mm BWR ply-[2130x910], 1 piece.

c) 6 mm BWR ply-[910x910], 1 piece.

2.9 Providing, fitting & fixing Teak Wood Computer Table with Overhead Storage & Display Unit [750 mm x 910 mm x 450 mm] (2'6"x3'0"x1'6")

(Ref. Figure No.9)

1st class teak wood of approved quality

Size of Teak Wood Computer Table with Overhead Storage & Display Unit [750 x 910 x 450] (2'6"x3'0"x1'6")

a) Table side [450x25x750], 2 pieces; Table top & bottom [450x25x910], 2 pieces; Drawer [150x25x600], 2 pieces; [150x25x450], 4 pieces; [150x25x300], 2 pieces Cabinet Shutter

[450x25x750], 1 piece; Cabinet Shelf [450x25x910], 2 pieces; Shutter [450x40x750], 2 pieces.

b) 12 mm BWR ply-[2130x910], 1 piece.

c) 6 mm BWR ply-[910x910], 1 piece.

2.10 Providing, fitting & fixing Teak Wood Wooden Chair [450 mm x410 mm x 900 mm] (18"x16"x3'0)

(Ref. Figure No.10)

1st class teak wood of approved quality

Size of chair [450x410x900] (18"x16"x3'0")

a) Size of Wood- [125x40x900], 1 piece; [50x50x450], 2 pieces; [75x25x450], 3 pieces; [75x25x380], 1 piece; [25x25x450], 7 pieces

b) 12 mm BWR ply- [125x75], 1 pieces; [380x75], 2 pieces; [450x25], 7 pieces; [450x75], 3 piece; [450x50], 02 pieces

c) Foam [75x450x450]- 01piece; Velvet Cloth of good quality fabric- [800x800]- 01piece

2.11 Providing, fitting & fixing Ply Wood Single Bed [2130 mm x 900 mm x 450 mm] (7'0" x 3'0" x 1'6")

(Ref. Figure No.11)

Size of bed [2130x900x450] (7'0"x3'0"x1'6")

a) 32 mm thick BWR ply- Leg Board [1x40x900]; Head Board [1x50x75]; Side Rail [2x150x2130];

b) 19 mm thick BWR ply- Bottom Ply [1x2130x900]

c) Teak Wood- Side Rail [2x2130x150x50]; Round Shaped Leg [4x75x75x200].

d) Sal Wood- Wood for bed joint fixing [1x900x50x40]; Side Rail batten wood [2x2130x50x25]- 01 piece; [2x900x50x25]- 01piece

2.12 Providing, fitting & fixing Ply Wood Bed Side Table [450 mm x 750 mm x 410 mm] (1'6"x2'6"x1'4")

(Ref. Figure No.12)

a) 19 mm thick BWR ply- Top & bottom [2x600x410]; Side [2x410x450]

- b) 12 mm thick BWR ply- for Drawer (1'x2'); Drawer [4x410x150] - 01 piece; [2x600x150]- 01 piece
- c) 6 mm thick BWR ply- Drawer Base [2x600x40]- 01 piece; [1x600x40]- 01 piece
- d) Sal Wood- [2x100x25x600]- 01 piece, [2x100x25x40]- 01 piece
- e) 4 mm Teak Veneer- Front [1x300x600]; Top [1x600x40]; Side [2x450x450]
- f) Teak Lipping wherever required
- 1/2" Moulding beat

2.13 Providing, fitting & fixing Ply Wood Wall mounted Dressing Table [750 mm x 900 mm x 450 mm] (2'6"x3'0"x1'6") [\(Ref. Figure No.13\)](#)

- a) 19mm thick BWR ply- Back side, side & top [600x450]- 02 pieces; [450x450]- 02 pieces; [450x450]- 01 pieces; Drawer front [300x150]- 01 piece; For Glass Frame [600x100]- 01 piece; [600x1200]- 01 piece; [1200x100]- 01 piece
- b) 12mm thick BWR ply- Back & both side [450x150]- 02 pieces; [300x150]- 01piece
- c) 6mm thick BWR ply- Bottom[300x450]- 01 piece; [600x450]- 01piece
- d) Sal Wood- [600x150x25]- 02 pieces; [450x150x25]- 02 pieces
- e) 4 mm Teak Veneer- [300x450]- 01pieces; [450x450]- 04 pieces; [600x450]- 01piece; [300x450]- 01piece; [300x450]- 02 pieces; [100x600]- 02 pieces; [1200x100]- 04 pieces
- f) Teak Lipping- 450mm-03 pieces; 600mm-02 pieces
- g) Moulding beat- [50x1200]- 02 pieces; [50x600]- 02 pieces

2.14 Providing, fitting & fixing Ply Wood Wardrobe [1980 mm x 900 mm x 450 mm] (6'6"x3'0"x1'6")

[\(Ref. Figure No.14\)](#)

- a) 19mm thick BWR ply- Back side, side & top- [1800x450]- 02 pieces; [900x450]- 02 pieces; [900x1800]-01pieces;[900x450]-03 pieces; [300x450]- 02 pieces; [1070x450]-01 piece; [450x150]-02 pieces; [450x150]-04 pieces; [450x150]-02 pieces
- b) 6mm thick BWR ply- Bottom [900x1800]-01 piece; [900x450]-01 piece
Sal Wood- [900x150x40]- 02 pieces; [450x150x40]-02 pieces
- c) 4 mm Teak Veneer- [900x2100] -01 piece

- d) Teak Lipping- 900mm-02 pieces; 1800mm-02 pieces; 450mm-04 pieces; 1800mm-04 pieces; 900mm-03 pieces; 450mm-02 pieces; 1070mm-01 pieces
- e) 3/4" Moulding Beat-10.67 m

2.15 Providing, fitting & fixing Ply Wood Reception Table with Multiple Utility **(Ref. Figure No.15)**

Ply Wood Reception Table with Multiple Utility

Consists of A) Ply Wood Reception Table [750 mm x 2130mm x 600mm] (2'6"x7'0"x2'0")

B) Ply Wood Computer Table [750mmx1300mmx990mm] (2'6"x4'3"x3'3")

C) Ply wood Low Height Cabinet [600mmx1300mmx990mm] (2'0"x4'3"x3'3")

A) Ply Wood Reception Table [750 mm x 2130 mm x 600 mm] (2'6"x7'0"x2'0")

1st class teak wood of approved quality

Size of Ply Wood Reception Table [750 mmx 2130 mmx 600 mm] (2'6"x7'0"x2'0")

- a) Wood Beat [50 mm x25 mm x2130 mm], 4 pieces.
- b) 19 mm thick BWR ply- [1220 mm x1830 mm]- 4 pieces
- c) 6 mm thick BWR ply- [1220 mm x 2440 mm]- 01 piece
- d) 4mm Teak Veneer- [1220 mm x 2440 mm]- 02 pieces

B) Ply Wood Computer Table [750 mm x1300 mm x 990 mm] (2'6"x4'3"x3'3")

1st class teak wood of approved quality

Size of Ply Wood Computer Table [750 mm x1300 mm x 990 mm] (2'6"x4'3"x3'3")

- a) Wood Beat [25 mm x 25 mm x 2130 mm], 8 pieces.
- b) 19 mm thick BWR ply- [1220 mm x 2440 mm]- 3 pieces
- c) 4mm Teak Veneer- [1220 mm x 2440 mm]- 02 pieces

C) Ply wood Low Height Cabinet [600 mm x1300 mm x 990 mm] (2'0"x4'3"x3'3")

1st class teak wood of approved quality

Size of Ply wood Low Height Cabinet [600 mm x1300 mm x 990 mm] (2'0"x4'3"x3'3")

- b) 19 mm thick BWR ply- [1220 mm x 1830 mm]- 2 pieces
- c) 4mm Teak Veneer- [1220 mm x 2440 mm] - 1 piece.

2.16 Providing, fitting & fixing Ply Wood Conference Reception Counter With Multiple Computer Work Stations & Other Facility

(Ref. Figure No.16)

Ply Wood Conference Reception Counter With Multiple Computer Work Stations & Other Facility Consists of

- A) Ply Wood Combined Table {Table1 [750 mm x 2440 mm x 600 mm] (2'6"x8'0"x2'0") and Table2 [750 mm x 1830 mm x 600 mm] (2'6"x6'0"x2'0')}
- B) Ply Wood Back Side File Cabinet [710 mm x 1750 mm x 410 mm] (2'4"x5'9"x1'4")
- C) Ply Wood Wall Side Computer Table [750 mm x 4420 mm x 600 mm] (2'6"x14'6"x2'0")

A) Ply Wood Combined Table {Table1 [750 mm x 2440 mm x 600 mm] (2'6"x8'0"x2'0") and Table2 [750x1830x600] (2'6"x6'0"x2'0')}

- a) 19 mm thick BWR ply- [1220 mm x 2440 mm]- 4 pieces
- c) 6 mm thick BWR ply- [1220 mm x 2440 mm]- 01 piece
- b) 4 mm thick Teak Veneer- [1220 mm x 2440 mm]- 4 pieces

B) Ply Wood Back Side File Cabinet [710 mm x 1750 mm x 410 mm] (2'4"x5'9"x1'4")

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- a) Drawer [300x300x300]
- b) 19 mm thick BWR ply- [1220 mm x 1830 mm]- 02 pieces
- c) 12 mm thick BWR ply- [1220 mm x 1830 mm]- 01 piece
- d) 6 mm thick BWR ply - [1220 mm x 1220 mm]- 01 piece
- e) 4 mm Teak Veneer- [1220 mm x 2440 mm]- 01 piece

C) Ply Wood Wall Side Computer Table [750 mm x 4420 mm x 600 mm] (2'6"x14'6"x2'0")

1st class teak wood of approved quality

- a) Drawer [910 mm x 300 mm x 300 mm]
- b) 19 mm thick BWR ply- [1220 mm x 1830 mm]- 04 pieces

- c) 12 mm thick BWR ply- [1220 mm x 2440 mm]- 01 piece
- d) 4 mm Teak Veneer- [1220 mm x 2440 mm]- 03 pieces
- e) 12 mm Particle Board- [1220 mm x 2440 mm]- 01 piece.

2.17 Providing, fitting & fixing Ply Wood Suitcase Rack [750 mm x 450 mm x 600 mm] (2'6"x1'6"x2'0")

(Ref. Figure No.17)

- a) 1st Class C.P Teak Wood- Supporting Wood- [750 mm x 50 mm x 40 mm] - 01 piece
- b) 19mm thick BWR ply- Back side, side & top- [450 mm x 600 mm]- 02 pieces; [750 mm x 450 mm]- 01 piece
- c) 4 mm Teak Veneer- [450 mm x 600 mm] – 04 piece; [750 mm x 450 mm]- 01 piece
- d) Teak Lipping – 750mm – 01 piece; 600mm – 02 pieces

18) Providing, fitting & fixing Panel for hexagonal lighting area in Salt Lake Guest House (Ref. Figure No.18)

1st class teak wood of approved quality

- a) Beat(3"x3") for Column front & side (bottom) [380 mm x 75 mm x 75 mm]- 48 pieces; [660 mm x 75 mm x 75 mm)- 48 pieces ; Beat(1"x1") for Column front & side (bottom) [380 mm x 25 mm x 25 mm]- 48 pieces; [660 mm x 25 mm x 25 mm)- 48 pieces; Frame Wood [1520 mm x 50 mm x 25 mm]-72 pieces; Beat(1"x1") for Column front & side (top) [1520 mm x 25 mm x 25 mm]-24 pieces; Beat (1"x1") for Column to Column joining portion [1830 mm x 25 mm x 25 mm]- 24 pieces
- b) 19mm thick BWR ply- Column front & side (top) [1520 mm x 300 mm]-24 pieces; Column to Column joining portion [1750 mm x 300 mm]- 24 pieces
- c) 12mm thick BWR ply- Column front & side (bottom) [1520 mm x 910 mm]- 24 pieces
- d) 6mm thick Veneer- Column front & side (top) [1520 mm x 300 mm]-24 pieces; Column to Column joining portion [1750 mm x 300 mm]- 24 pieces; Column front & side (bottom) [1520 mm x 910 mm]- 24 pieces.

N.B.: 1st Class Teak Wood of approved quality.

3.0 QUALITY ASSURANCE

- 3.1 Teak Wood : Teak wood will be 1st class (BG wood) of approved quality. It should be thoroughly seasoned, of matured growth, uniform in texture and free from large dead or loose knots, waves, shakes, rot, decay and any other defects. The grains shall be close and reasonably straight. They shall have plane surfaces and shall be free from defects and uniform thickness as indicated above. In general the timber shall conform to relevant Indian Standards (Latest) or other equivalent standard specifications. The moisture content of timber shall be within stipulated limit as prescribed in the relevant IS codes.
- 3.2 BWR Ply : Ply wood will be of approved quality (Greenply, Archidply, Centuryply).
- 3.2 Fittings & Fixture :
- a) Handle – Premium quality brass decorative door handle aesthetically matching.
 - b) Mortice Latch & Lock – High performance mortice latch & lock
 - c) 1.5” Metal Cap- High performance & Durable.
- 3.3 Finishing – The complete joinery work, wood engraving work etc. should conform relevant IS standard and should be of high quality.
- 3.4 Polishing - High quality durable polish of approved colour & gloss.

N.B. : All materials to be got approved prior to delivery at site and fabrication.