



KINGDOM OF SAUDIA ARABIA THE SAUDI FUND FOR DEVELOPMENT (SFD)

PROJECT NAME

Reconstruction and repair works of more than 150 effected houses for non-refugees and Rehabilitation and Furniture for field playgrounds and a culture center

Lot# 9

Furnishing of Palestine playgrounds (Gymnasium enabled for people with disabiliyt)

DONATED BY

Kingdom of Saudi Arabia through the Saudi Fund for Development (SFD)

EMPLOYER

United Nations Releif and Works Agency (UNRWA)
Through United Nations Development Programme (UNDP/PAPP)





Technical Specifications

Item 1-1

Pupil's desk 1 – preparatory grade

General

For 2 pupils elementary school.

Technical Specifications

Height, 70 cm

Dimension of table board: 45 x 115 cm

Thickness of table board: 17mm

Dimension of metal tubes: 20 x 20 mm & 40 x 20 mm Thickness of metal sheets forming the metal tube: 1.25 mm Color of the surface of table board (Formica): grey (3130)

1. Metal framework

The metal frame shall be made from hollow metal profile tubes (profilstahl).

Dimensions: 20 x 20 mm and 40 x 20 mm, thickness: 1.25 mm.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Additional holes in the metal framework shall be made besides and equal in number to the existing holes to enable future maintenance.

All ends of the metal squares must be covered with black plastic covers.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground and must be fixed with metal screws.

Two bag-holders should be fixed on each side of table.

2. Table board

The table board shall be made of precut plywood (SANDWICH), best quality.

Thickness of table board shall be 17 mm, dimensions: 115 x 45 cm. It shall be covered with colored plastic FORMICA on both sides.

Top Formica thickness: 0.8mm. Color: beige (cream) (3231).

Bottom Formica thickness: 0.5mm.

The table board shall be belted using INJECTION POLYURETHANE THERMOSET.

The belt thickness must be (5-8mm). Color: black

The table board shall be fixed on the metal framework using galvanized metal screws, (3.5) cm.

Number of screws: 12. It should be fixed from the bottom.

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 - 0.8) gm/m².

- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with

suitable temperature and time for the process.

- Thickness of painting (60 - 80) micron.

- (Abox polyster powder) paint should be used, color: to be determined by supervisor Marengo No. 7016 Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun,

dust etc.

Pupil's desk 2 Secondary grade

A. General

For 2 pupils secondary school.

B. Technical Specifications

Height, 76 cm

Dimension of table board: 45 x 115 cm

Thickness of table board: 17mm

Dimension of metal tubes: 20 x 20 mm & 40 x 20 mm Thickness of metal sheets forming the metal tube: 1.25 mm Color of the surface of table board (Formica): grey (3130)

1. Metal framework

The metal frame shall be made from hollow metal profile tubes (profilstahl).

Dimensions: 20 x 20 mm and 40 x 20 mm, thickness: 1.25 mm.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Additional holes in the metal framework shall be made besides and equal in number to the existing holes to enable future maintenance.

All ends of the metal squares must be covered with black plastic covers.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground and must be fixed with metal screws.

Two bag-holders should be fixed on each side of table

2. Table board

The table board shall be made of precut plywood (SANDWICH), best quality.

Thickness of table board shall be 17 mm, dimensions: 115 x 45 cm. It shall be covered with colored plastic FORMICA on both sides.

Top Formica thickness: 0.8mm. Color: grey (3130).

Bottom Formica thickness: 0.5mm.

The table board shall be belted using INJECTION POLYURETHANE THERMOSET.

The belt thickness must be (5-8mm). Color: black

The table board shall be fixed on the metal framework using galvanized metal screws (3.5) cm.

Number of screws: 12. It should be fixed from the bottom.

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: to be determined by supervisor Marengo No. 7016 Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust.

يتم توسيع الهيكل بحيث يسهل ادخال عدد 2 كرسي طالب ز -ح داخل الطاولة

Item 2-1

Pupil's chair 1- Preparatory grade

A. General

For 1 pupil dekal

B. Technical Specifications

Height: 42 cm

Dimension of plastic seat: 33.5 x 34.5 cm Dimension of plastic back: 19.5 x 34.5 cm

Plastic thickness: 5 – 8 mm

Plastic color: GREY

Diameter of iron pipes: 22 mm,10/20mm Thickness of iron pipes: 1.5 mm,1.25mm

Width of chair: 40 cm

Note: for plastic dimensions measured by cms (± 0.5) cm

1. Metal framework

The metal framework shall be made from metal pipes. Diameter: 22 mm, thickness 1.5 mm.

The lateral metal connections shall be made of elliptical profile 10/20 mm with a thickness of 1.25mm.

All ends of metal pipes should be closed with plastic covers.

Plastic heels are to be installed at the bottom of the chair's legs.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used

2. Chair back and seat

Chair back and seat shall be made out of reinforced plastic. Thickness: 5-8mm.

The chair back shall be fixed by metal screw; length 1.5cm, required number: 4.

It shall be fixed from the backside.

The seat shall be fixed by metal screw; length: 1.5 cm required number: 4.

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: to be determined by supervisor Marengo No. 7016
 Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.

Pupil's chair 2-Secondary grade

A. General

For 1 pupil dekal.

B. Technical Specifications

Height: 46 cm

Dimension of plastic seat: 37 x 37 cm Dimension of plastic back: 22.5 x 37.5 cm

Plastic thickness: 5 – 8 mm

Plastic color: grey

Diameter of iron pipes: 22 mm,10/20mm Thickness of iron pipes: 1.5 mm,1.25mm

Width of chair: 44 cm

Note: for plastic dimensions measured by cms (\pm 0.5) cm

1. Metal framework

The metal framework shall be made from metal pipes. Diameter: 22 mm, thickness 1.5 mm.

The lateral metal connections shall be made of elliptical profile 10/20 mm with a thickness of 1.25mm.

All ends of metal pipes should be closed with plastic covers.

Plastic heels are to be installed at the bottom of the chair's legs.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used

2. Chair back and seat

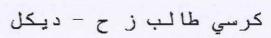
Chair back and seat shall be made out of reinforced plastic. Thickness: 5-8mm.

The chair back shall be fixed by metal screw; length 1.5cm, required number: 4.

It shall be fixed from the backside.

The seat shall be fixed by metal screw; length: 1.5 cm required number: 4.

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: to be determined by supervisor Marengo No. 7016 Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.





Item 3-1

Teacher's desk (class room)

A. General

In class room use.

B. Technical Specifications

1. Metal framework

The metal framework shall be made of hollow metal profile tubes.

Dimensions: 20 x 20 mm and 40 x 20 mm, thickness: 1.25 mm.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be applied.

Additional holes in the metal framework shall be made equal in number to the existing holes to enable future maintenance.

All ends of the iron squares must be closed with plastic covers.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground and must be fixed with metal screws.

2. Table Board

The table board shall be made of precut plywood (SANDWICH), best quality.

Thickness of table board shall be 17 mm, dimensions: 110 x 54 cm. It shall be covered with colored plastic FORMICA on both sides.

Top Formica thickness: 0.8mm. Color: grey (3130).

Bottom Formica thickness: 0.5mm.

The table board shall be belted using INJECTION POLYURETHANE THERMOSET.

The belt thickness must be (5-8mm). Color: grey

The table board shall be fixed on the metal frame using galvanized metal screws, (3.5) cm.

Number of screws: 12. It should be fixed from the bottom.

A front cover shall be installed which is made of precut plywood (SANDWICH), best quality.

Thickness of the front cover shall be 16mm with dimensions of 110 x 50 cm and shall be covered from both sides and edges using plastic belt (1.5-2mm).

Top Formica thickness (0.8 mm), color: grey (3130).

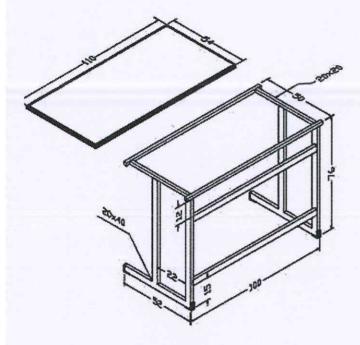
Bottom Formica thickness (0.5 mm), color: white.

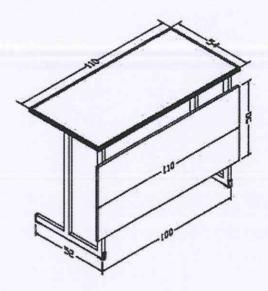
The edges of board should be covered by plastic belt (Formica MAH) thickness (1.5-2 mm), color: black The cover shall be fixed on the metal frame using galvanized metal screws (3.5) cm. required number 10 screws, should be fixed from inside.

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016

Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.

Item Teacher Desk (Classroom)





Teacher's chair in classroom

A. General

In Classroom, and staff room use

B. Technical Specifications

Height: 46 cm

Dimension of plastic seat: 42 x 43 cm Dimension of plastic back: 22 x 43 cm

Plastic thickness: 5 - 8 mm

Plastic color: grey.

Diameter of iron profile: (20x20) mm Thickness of iron profile: 1.25mm

Note: for plastic dimensions measured by cms (\pm 0.5) cm

1. Metal framework

The metal framework shall be made from profile. Diameter: (20x20) mm, thickness 1.25 mm.

All ends of metal profile shall be closed with plastic covers.

Plastic heels are to be installed at the bottom of the chair's legs.

All metal frame work shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used

2. Chair back and seat

Chair back and seat shall be made out of reinforced plastic. Thickness: 5-8mm.

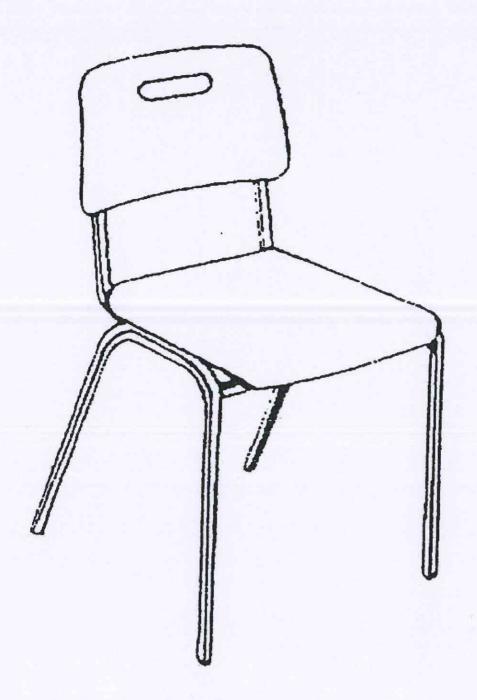
The chair back shall be fixed by metal screw; length 3.5cm, required number: 2.

It shall be fixed from the backside.

The seat shall be fixed by metal screw; length: 3.5 cm required number: 2.

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016



Item 4-1

Diana chair

A. General

In administration rooms

B. Technical Specifications

Metal chair, coated with leather-Diana

- 1. Metal framework
- The metal framework legs shall be made of ofali steel 15\30 diameters, thickness: 1.25mm.
- •all metal ends should be covered with plastic
- All metal pieces are to be welded together properly, strongly and in conformity with regulations.
- · Co2 welding shall be used.
- Plastic heels are to be installed under the legs to elevate the iron parts from the ground.

2. Chair seat

- the seat is made from sandwich wood with thickness of 17mm. Not connecting wood should be used.. the back and seat should be filled with strong sponge of 4cm thickness and coated with good quality leather, color is upon request. provide a sample of the leather.
- The seat is fitted with the metal framework by metal screws. Number of 3.8cm screws :4 from the back and 4 from under the base

3. Painting

- All metal parts shall be painted after being cleaned from oil using special thermal control painting for metal furniture like electrostatic powder, decided by the engineer
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace.
- Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.

مستورد ويجب تقديم عينة

Item 4-2

Head master chair

A. General

B. Technical Specifications

1. Metal framework

A swivel chair with 5 rolling wheels.

The chair shall have a jack for elevation adjustment.

The arms shall be made of iron and covered with reinforced plastic pieces from top.

The base shall be made of black reinforced plastic.

The seat shall be connected to the base by a chromium rod not less than 30 cm long and 5 cm in diameter.

2. Chair back and seat

It shall be made of plywood (sandwich) with a minimum thickness of 15 mm, best quality.

The chair back and seat shall be upholstered using sponge.

The thickness of sponge for the chair back should not be less than 8 cm and for the seat 10 cm.

Special, good quality cloth shall be used for covering the chair back and seat.

The color shall be chosen by the Ministry.

The wooden seat shall be fixed on the metal base using bolts, with a nut fixed on the wooden seat.

The chair shall be attached to the arms' framework using bolts and a nut fixed on the chair back.

A device (propeller) shall be installed at the back of the chair to control the inclination process forwards and backwards.

مستورد ويجب تقديم عينة

Item 4-3

Stool chair

A. General

B. Technical Specifications

1. Chair Frame and Seat

Height: 60 cm.

Four-legged stool chair.

The legs shall be made of metal profile pipe 22 mm in diameter and 1.25 mm thick as shown on attached figure.

The chair shall have two rings made of metal profile pipes of 16 mm in diameter and 1.25 mm in thickness.

All metal parts shall be welded using CO2 continuous welding.

The seat shall have a disc-like shape, concave, diameter 34 cm made of Natural Sweden wood 34 mm thick, painted with lacquer paint.

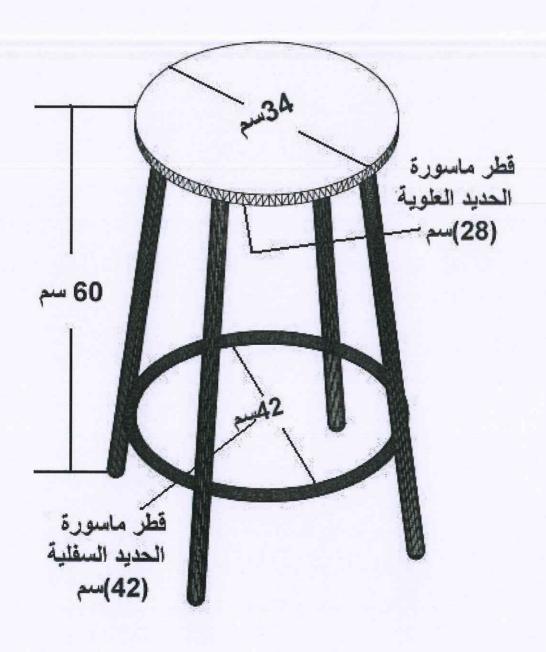
The seat shall be fixed to the metal framework by using galvanized metal screws, (3 cm).

Number of screws: 4.

Plastic heels are to be installed under the chair at the metal open ends.

2. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016



Item 4-4

Swivel Chair (STUDENT)

A. General

In computer lab.

B. Technical Specifications

- 1. Metal framework
- A swivel chair with 5 rolls, the back and seat are upholstered
- The seat should be made from strong aluminum.
- Works by a manual control (Jack shiny chrome plated + slab) for lifting and unloading, excellent type "Italian", "should provide a sample of Jack and the slab before the installation"
- Can be controlled by the slab to move the back to behind and forward.
- The chair arms coated (glossy chrome) and install rests for hands.

2. Chair back and seat

- The back and the seat upholstered with sponge and covered by medical leather.
- The chair should be wrapped by gelatin or nylon to save them during transport and storage.
- (Sample should be provided)



Item 5-1

Head master desk

A. General

Dimensions: 3-Drawers and Cabinet, 70x160 with Height 75cm

B. Technical Specifications

1-Desk

- The desk shall be made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by beech wood zan bark. Not use the connected wood in all desk parts.
- The cant installed from the same wood on the bottom of the frame face width of 3 cm and the cants of the 2 side stands from front and back, width 9 cm to become Thickness 34 mm.
- Install beech wood zan wood frame, thickness not less than 10mm surrounding the wood surface edge.
- The middle stand should be made from the surface wood and zan edge fixed on the low edge and the stand should have the same height.
- The wood surface should put together by metal clips particularly for furniture. (Provide sample).
- Knobs of good quality shall be installed on the compartment and drawer in a way which allows for smooth opening and closing.

2. Cupboard & Drawers

- · Make from the same desk wood.
- Back and floors should be fixed from Ablakaj wood, thickness 4 mm.
- Combines the rudder of the cupboard by metal hinges excellent quality such as Hettish or its equivalent, taking into account that the cupboard to the left of the desk.
- Install metal knob of the cupboard and drawers of excellent type so that at least the weight of the knob about 35 gm. (provide a sample).
- Locker should be installed, double closes, good quality, for top drawer and the helm of the cupboard.
- The drawers and cupboard should be movable with good quality wheels.

- Should emery and soften the wood and prepare it for paint
- Paint all wood's surfaces (as required color) properly with glossy varnish layer

Item 5-2

Item Working table

Wooden Cabinet with Glass doors, length without legs 180, width 120, depth 40 cm

- Made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by zan bark. Not use the connected wood in all desk parts.
- All parts should be gathered by ironed angles width 3.5 cm, and should be balanced.
- Install a vertical partition divide the cabinet into 2 equal parts.
- The back should be installed by Ablakaj wood, good quality, and without any knots, thickness 4 mm.
- The back fixing by Rakoll glue or equivalent and pins not less than 30 pins.
- The edges of cabinet should be coated by zan cant thickness not less than 1 cm, including the shelves, dividers and shutters from inside and outside.
- Install unstable shelves number 3 for each part from the same wood.
- Install 2 shutters for the cabinet from the same wood by Hettish knobs or equivalent, fixed by glass from inside 4mm.
- Should emery and soften the wood and prepare it for paint
- Paint all wood's surfaces (as required color) properly with glossy varnish layer.
- Install metal knobss of excellent type so that at least the weight of the knob about 35 gm. grey color. Locker should be installed, double closes, and good quality (provide a sample).
- Install Negel legs, dark red color, height 10 cm.

(The ministry should be consulted regarding the sample)

Reading table

A. General

B. Technical Specifications

1. Metal framework

The metal framework shall be made from pipe steel with diameter of 32 mm for legs, and 19 mm diameter for stiffeners (عراضات) of 1.25 mm thick.

A metal sheet cover 2 mm thick and a 150 mm wide should be installed around the table at the top level to fix the face.

The bottom edge of the metal frame shall be covered with plastic heals.

All metal pieces are to be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground.

Table height =76 cm

2. Table board

The table board shall be made of plywood "sandwich" board, best quality.

Thickness of plywood is 17 mm. Dimensions: 120x60 cm

It shall be covered with stretched laminated plastic sheet (Formica MATT) 0.8 mm thick. Color to be determined by the engineer.

The table board shall be thickened by using strips of plywood (sandwich) wood 17 x 30 mm around the backside edges of the table's board.

Beech wood shall be used in belting the edges of the table board 15 mm thick and 34 mm wide.

The beech belt shall be painted with three coats of lacquer paint in addition to prime coat and to be fixed by using adhesive materials with no nailing. Fixing of the beech belt shall be done after the lamination with the plastic sheets.

The table board shall be fixed on the metal framework using metal screws (2cm). Number of screws: 10.

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016

Item 5-4

Circle reading table

A. General

B. Technical Specifications

1. Metal framework

The metal framework shall be made from pipe steel with diameter of 32 mm for legs, and 19 mm diameter for stiffeners (عراضات) of 1.25 mm thick.

A metal sheet cover 0.8 mm thick and a 100 mm wide should be installed around the table at the top level as shown on attached figure.

The bottom edge of the metal frame shall be covered with plastic heals.

All metal pieces are to be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground.

The table height is 76 cm

تركب قطع حديد مبسط على الهيكل المعدني سماكة لا تقل عن 2 ملم وبعرض 1.5 سم لتثبيت الوجه

2. Table board

The table board shall be made of plywood "sandwich" board, best quality.

Thickness of plywood is 17 mm. diameter: 110 cm

It shall be covered with stretched laminated plastic sheet (Formica MATT) 0.6 mm thick. Color to be determined by the ministry (3130).

The table board shall be thickened by using strips of plywood (sandwich) wood 17 x 30 mm around the backside edges of the table's board.

Beech wood shall be used in belting the edges of the table board 15 mm thick.

The beech belt shall be painted with three coats of lacquer paint in addition to prime coat and to be fixed by using adhesive materials with no nailing. Fixing of the beech belt shall be done after the lamination with the plastic sheets.

The table board shall be fixed on the metal framework using metal screws (1.5cm). Number of screws: 8. The table height is 76 cm

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016

Resource Room table

Metal framework

The metal framework shall be made from steel profile tubes 20 x 20 mm and 40 x 20 mm and 1.25 mm thick.

A metal sheet cover 0.8 mm thick and a 100 mm wide should be installed around the table at the top level as shown on attached figure.

The bottom edge of the metal frame shall be covered with plastic heals.

All metal pieces are to be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Plastic heels are to be installed under the legs to elevate the iron parts from the ground.

The metal framework is 51 width X 56 height.

Table height =71 cm

2. Table board

The table board shall be made of plywood "sandwich" board, best quality.

Thickness of plywood is 17 mm. Dimensions: 60X50 cm

It shall be covered with stretched laminated plastic sheet (Formica MATT) 0.8 mm thick. Color to be determined by the MoEHE (3130).

The table board shall be thickened by using strips of plywood (sandwich) wood 17 x 50 mm around the backside edges of the table's board.

Beech wood shall be used in belting the edges of the table board 15 mm thick and 34 mm wide.

The beech belt shall be painted with three coats of lacquer paint in addition to prime coat and to be fixed by using adhesive materials with no nailing. Fixing of the beech belt shall be done after the lamination with the plastic sheets.

The table board shall be fixed on the metal framework using metal screws (2cm). Number of screws: 10. The front board, drawers and the compartment should be made of (plywood "sandwich) of best quality, thickness (17mm).

The table is comprising of a drawer on the whole dimension of the table with a thickness of 15 cm.. Knobs of good quality shall be installed on drawer in a way allows for smooth opening and closing.

The drawer shall have cylindrical locks of best quality.

The drawers shall slide on steel rails 1.25 mm thick with wheels to ensure smooth movement of the drawers.

A built in tube for pens to be made on table face. (فرز للأقلام)

3. Painting

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 - 0.8) gm/m².

- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with

suitable temperature and time for the process.

- Thickness of painting (60 - 80) micron.

- (Abox polyster powder) paint should be used, color: Marengo No. 7016

Item 5-6

Computer table (student)

A. General

For student use

B. Technical Specifications

Computer Desk: 70X45X110

1. Desk

- The desk shall be made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by beech wood zan bark including the back except the right side. Not use the connected wood in all desk parts.
- •a frame to be installed width=3cm on surrounding the bottom face so Thickness becomes 34 mm.
- Install beech wood zan for all edges and shelves, thickness not less than 10mm
- •plastic heels to be installed (ruler), 6 heels, fixed with screws, 2 screws for every ruler the desk should be put together using metal angels of 3.5cm width.
- A vertical divider to be installed on a metal track for the mouse on the right side and a moving shelf for the keyboard on the left side. the back of the desk has the same height on both sides with thickness not less than 10 mm including shelves.

The work include wooden duct with all required power and data cables from the main panel to the socket. Complete Power socket and data socket should be installed for each table with all required cables or connection.

- · Should emery and soften the wood and prepare it for paint
- Paint all wood's surfaces (as required color) properly with glossy varnish layer, the desk should be wrapped with nylon or gelatin to protect it when stored or moved, dimensions: length=110cm, width= 45cm, height=75cm

Technology table (student)

A. General

For student use

B. Technical Specifications

1. Metal Frame Work

The metal frame shall be made from hollow metal profile tubes (profilstahl).

Dimension: 40 x40 mm, thickness: 3 mm with same dimension of table face.

Table legs are made of metal with 4 legs for each 120 cm, the height of legs are 90cm.

All metal pieces shall be welded together properly, strongly and in conformity with regulations.

CO2 welding shall be used.

Additional holes in the metal framework shall be made besides and equal in number to the original holes to enable future maintenance.

All ends of the metal squares must be covered with black plastic covers.

Plastic heels are to be installed under the legs to elevate the metal frame from the ground and must be fixed with galvanized metal screws.

2. Table Board

The table board shall be made of precut plywood (SANDWICH), best quality.

Thickness of table board shall be 17 mm, dimensions: 120 x 60 cm. It shall be covered with colored plastic FORMICA on both sides.

Top Formica thickness: 0.8mm.

Bottom Formica thickness: 0.5mm.

Beech wood shall be used in belting the edges of the table board 2.5 x 2.5 cm.

The beech belt shall be painted with three coats of lacquer paint in addition to prime coat and to be fixed by using adhesive materials with no nailing. Fixing of the beech belt shall be done after the lamination with the plastic sheets.

The table board shall be fixed on the metal framework using galvanized metal screws, (3.5 cm).

Number of screws: 12. It should be fixed from the bottom.

3. Drawer & accessories

A wooden drawer hanged below the table face shall be centrally fixed with dimension of 120 X 40 X 20 cm with the same type of table face wood, with hand and locker from best quality.

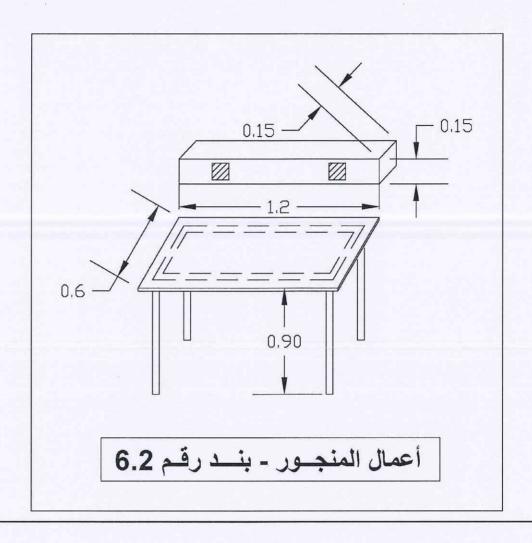
Knobs of good quality shall be installed on the drawers in a way allows for smooth opening and closing. The drawer shall have cylindrical locks of best quality.

The drawers shall slide on steel rails 1.25 mm thick with wheels to ensure smooth movement of the drawers.

A wooden box of precut plywood (Sandwich) 15cmX15cm dimension and 17 mm thickness with covering of colored plastic FORMICA on both sides should be fixed on the table face.

The table should be provided with triple socket outlet A10 ·V220 bitchino type, with all required wires or electrical foundation, these connections should be hide inside the box..

- All metal shall be painted after being treated with at least three stages and cleaned from oil, grease, dust, rust and other dirt using special thermal control painting for metal furniture to form a layer of base painting of (iron phosphate) (0.4 0.8) gm/m².
- Automatic spray painting shall be applied to be followed by a drying process in a thermal furnace with suitable temperature and time for the process.
- Thickness of painting (60 80) micron.
- (Abox polyster powder) paint should be used, color: Marengo No. 7016



Item 5-8

Drawing Stand

Drawing stand with height of 180 cm X 5 cm from Zan x 3cm.

The price includes painting one priming coat and two lazour finishing coats and lucker coat

Two stiffner of zan wood to be fixed to hold the drawing.

Screws of 8mm X10 cm to be fixed from the top.

سم ارتفاعه 180 سم مح المستاند رسم من خشب الزان مقاس 3 مدهون وجه اساس ووجه لازور ووجه ورنيش يثبت من الأعلى ببرغي 8ميلي 10سم ويوضع عراضتين صغيرتين لحمل اللوحة



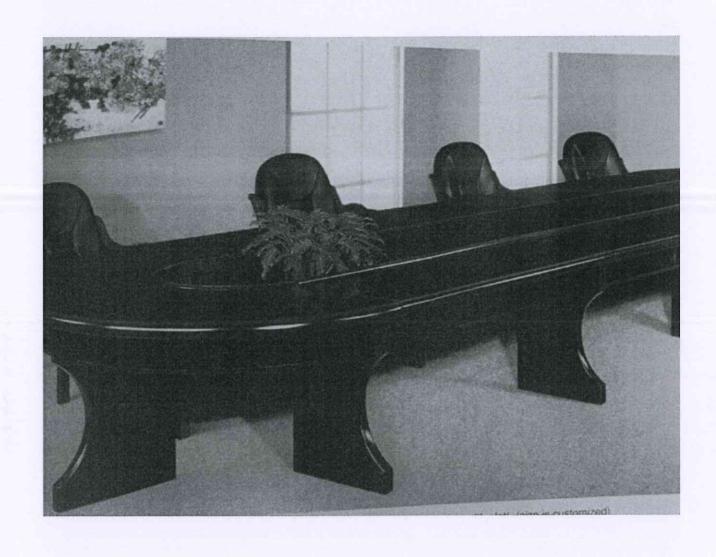
طاولة اجتماعات

B. Technical Specifications

The table details is a shown in the photo.

Dimension = 160 X440 cm

- 1. Desk
- The desk shall be ellipsoid made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by beech wood zan bark including the back. Not use the connected wood in all desk parts.
- The cant installed Zan wood on the bottom of the frame face width of 3 cm and the cants of the 2 side stands from front and back, width 9 cm to become Thickness 34 mm.
- Install beech wood zan wood frame, thickness not less than 10mm surrounding the wood surface edge.
- The middle stand should be made from the surface wood and zan edge fixed on the low edge and the stand should have the same height.
- The wood surface should put together by metal clips particularly for furniture. (Provide sample).
 Legs are made from Zan with double thickness.
 Table height = 76 cm.
 - 2. Painting
 - Should emery and soften the wood and prepare it for paint
 - Paint all wood's surfaces (as required color) properly with glossy varnish layer. the desk should be wrapped with nylon or gelatin to protect it when stored or moved.



wooden file cabinet 4 drawers

A. General

B. Technical Specifications

1. framework

Made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by zan bark. Not use the connected wood in all desk parts. Three vertical dividers should be installed to divide the cabinet into 4 parts. a drawer from the same wood should be installed moving on special metal tracks (مسلوت) (مسلوت) with metal handlers of excellent type 35gm, grey color. provide a sample and a locker of excellent type. provide a sample

- •All parts should be gathered by ironed angles width 3.5 cm, and should be balanced.
- •for every drawer two metal angels should be installed to hang files. provide a sample
- •The back should be installed by the same type of wood,
- a Zan wood belt should be made for all wood edges with thickness of 10mm
- •Should emery and soften the wood and prepare it for paint
- •Paint all wood's surfaces (as required color) properly with glossy varnish layer.
- •Install plastic heels (دقرة\مسطرة) with 8 screws, 2 for every ruler, dimensions: depth= 50cm. width= 45cm. height= 133cm

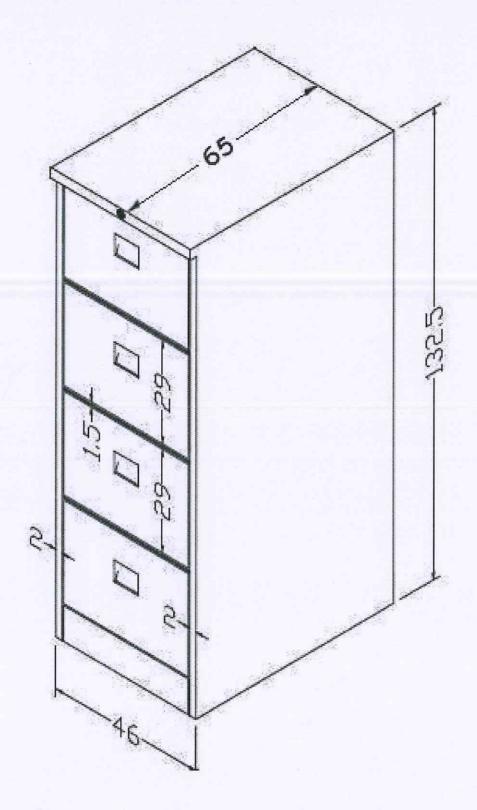
2. Dimensions

Length: 132.5 cm, Breadth: 46cm, Depth: 65 cm.

4. Painting

Should emery and soften the wood and prepare it for paint

•Paint all wood's surfaces (as required color) properly with glossy varnish layer.



Item 6-2

Wooden cabinet with 10 doors

Wooden Cabinet for teachers with 10 compartments

Width = 80 cm

Depth = 40 cm

Height = 200 cm without legs

- The Cabinet shall be made of "sandwich" strong wood "A" type, thickness: 17 mm, encrusted with beech wood (zan) layer. Not to use the connected wood in all cabinet's parts
- · 4mm Ablakaje wooden back.
- The cabinet equally divided into 10 shelves as attached with the same wood type and outside frame thickness. The shelf spaces are equal
- The front edges of cabinet should be coated by beech wood zan cant thickness not less than 1 cm, including the shelves, dividers and shutters.
- The back fixing by Rakoll glue or equivalent and pins not less than 30 pins.
- Combines the rudder of the cabinet by metal hinges excellent quality such as Hettish or its equivalent number:2.
- Install metal knob and locker double closed of the cabinet of excellent type so that at least the weight of the knob about 35 gm, silver color, measurement card 10x5 cm. (provide a sample of locker and hands).
- 4 plastic legs are to be installed, height 10 cm, (provide a sample).
- Should emery and soften all parts of wood including stands, ceiling, and cabinet back from inside.
- Paint all wood's surfaces (as required color) properly with glossy varnish layer.
- Painting, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.
- The surface should be wraps by gelatin or nylon to save the tables during transport and storage.

Item 6-3

Laboratory locker

A. General

B. Technical Specifications

Cabinet for Laboratory with drawers

Width: 90 cm, Depth: 43 cm, Height: 193 cm

- 1. Table should be made of sandwich wood of 17 mm thickness covered with zan, no connecting part of wood to be used
- 2. All parts of the cabinet should be welded with strong metal angels based on specifications.
- 3. The back of the cabinet should be covered with ablakaj wood, first class with 4 mm thickness.
- 4. The back should be fixed with glue and 30 screws.
- 5. Front angles should be covered with zan wood of not less than 1 cm thickness, including shelves, dividers, and angles of doors.

Inside divisions:

The cabinet should be divided into 3 parts:

- 1. The upper part which consists two doors. Glass cover should be installed with thickness of 4 mm, (no connecting wood). Zan frame should be installed around the glass.
- The whole metal framework shall be made of metal sheets, thickness: 0.8 mm including the back and internal shelves of the cabinet.

The second part consists 2 drawers moving on metal tracks.

The third part is the two doors

The doors should be welded with the cabinet using hinges of first class, 2 for each door.

Stainless handles of 9.5 cm width should be installed by 6 screws, soft pin, 3.8X25 mm and 4 first class lockers.

2 moving shelves of the same wood and of 38 cm width should be installed.

Wood should be softened and prepared for painting from in and outside.

All sides of wood should be painted as requested, a layer of varnish should be used.

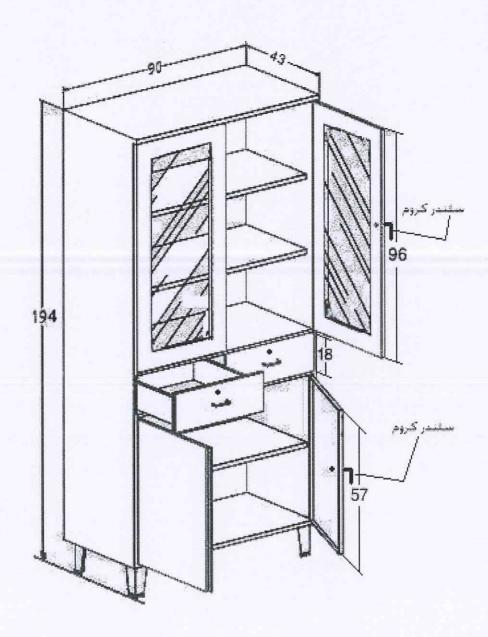
Painting of iron, assembly, delivery and storage must be carried out away from climatic influence i.e. sun, dust etc.

4 Plastic (ball) legs should be installed under the cabinet with screws.

Dimensions: Length= 193cm.

Width= 90cm

Depth= 40cm



Item 6-4

Bookshelf

A. General

B. Technical Specifications

The bookshelves shall be made of plywood (sandwich board) with a minimum thickness of 17 mm, best quality.

The back shall be covered with a plate made of mezonite wood 5 mm thick, color: white.

The shelves shall be fixed using glue and 4 cm long pins.

Distance between shelves shall be equal.

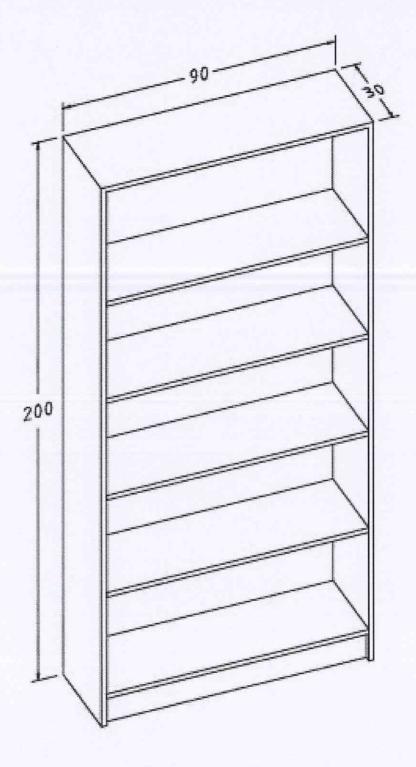
The wooden parts shall be covered with stretched laminating plastic sheet (Formica) 0.8 mm thick, best quality. Color gray (3130).

All edges of should be cover by hardened plastic belt thickness (1.5-2mm) color: black.

The back shall be fixed using metal screws 1.5 cm long.

Plastic heels are to be installed under the legs to elevate the wooden parts from the ground.

Dimensions: Length; 200 cm, Width; 90 cm, Depth 30 cm.



Item 6-5

Wooden Cabinet with Glass doors

A. General

For administration rooms

B. Technical Specifications

Wooden Cabinet with Glass doors, length without legs 180, width 120, depth 40 cm

- Made of "sandwich" wood "A" type, thickness: 17 mm as min. surrounding by formica. Not use the connected wood in all desk parts.
- All parts should be gathered by ironed angles width 3.5 cm, and should be balanced.
- Install a vertical partition divide the cabinet into 2 equal parts.
- The back should be installed by Ablakaj wood, good quality, and without any knots, thickness 4 mm.
- The back fixing by Rakoll glue or equivalent and pins not less than 30 pins.
- The edges of cabinet should be coated by zan cant thickness not less than 1 cm, including the shelves, dividers and shutters from inside and outside.
- Install unstable shelves number 3 for each part from the same wood.
- Install 2 shutters for the cabinet from the same wood by Hettish knobs or equivalent, fixed by glass from inside 4mm.
- Should emery and soften the wood and prepare it for paint internal
- Install metal knobss of excellent type so that at least the weight of the knob about 35 gm. grey color. Locker should be installed, double closes, and good quality (provide a sample).
- Install Negel legs, dark red color, height 10 cm.

(The ministry should be consulted regarding the sample)

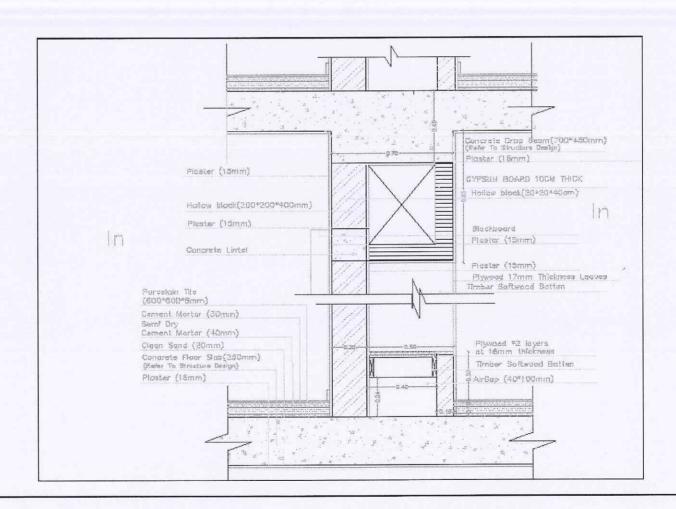
Built in Wooden Cabinet

A. General

For classroom in Al Motanby school

B. Technical Specifications

Supply and install classroom wooden cupboard 125x250 cm from plywood 17mm covered with beach veneer and rounded edges strip 20*17mm thickness natural hard wood zan, the work include lockable doors from the same materials, high quality European made switches, hinges and all accessories needed with soft surface, apply two coats of sanding sealer, one coat of lacquer paint, sand lightly and apply two coats of varnish, drill and fix to concrete or block walls using expansion steel bolts as per drawings detail Measurement: will be for the external dimension of the cupboard.



Item 7-1

EXAMINATION COUCH

Item: Examination Couch (First Aid Room)

A. Technical Specifications

- 1. Chromium-plated rectangular steel tube frame
- 2. 3-section mattress
- 3. Head section adjustable up to +40°
- 4. Leg section up to +28°
- 5. Dimension: $1950 \times 650 \times 650$ h mm approx.
- 6. Paper roll holder is include
- 7. Paper roll 500 mm wide is included
- 8. Complete with all accessories and consumables needed to work completely as specified

Item 7-2

EXAMINATION COUCH

Item: Examination Couch (Social Worker Room)

A. Technical Specifications

80سم عرض، سم 190 طول، مصنوع من الخيزران الطبيعي، الارتفاع من أعلى 63سم ومن الوسط 42سم ومن الأسفل 32سم، فرشة إسفنج ضغط عالي 5سم (ازرق) إضافة إلى اكريلانت 1سم، كسوة من القماش السيتان، اللون حسب العينات، سحاب من أسفل، مخدات عدد اثنين بمقاس 40*90 اسفنج ضغط منخفض 40% و طبقة مقاس 1 سم سم من الاكريلانت مكسوة من نفس القماش سحاب من أسفل.

يجب تقديم عينة للاعتماد

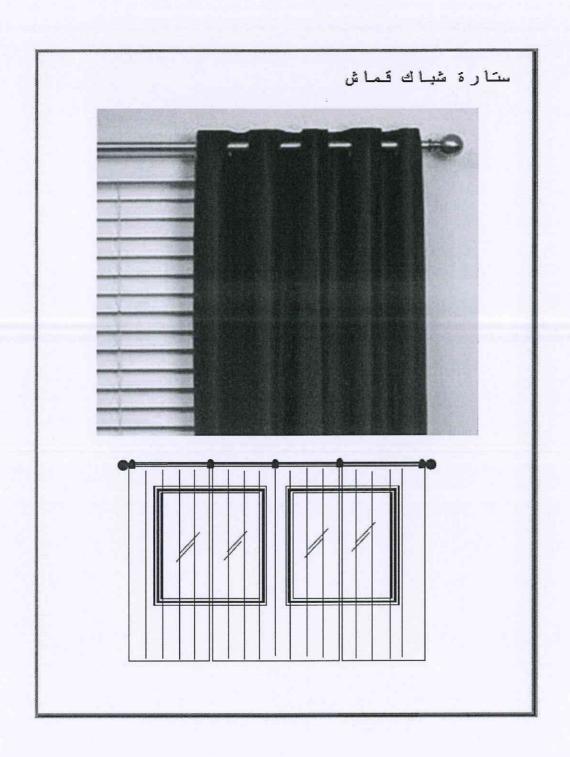
Item 8-1

CAURTEN FABRIC

Provide a sample for approval.

- The quantity used is a linear meter
- Including thin metal pipe (as requested color) and copper rings attached to the fabric (6rings/m).
- The type of fabric is dark black out and the color upon requested.
- Each meter use up 2 meters of fabric.
- The curtains elevate from the ground 7 cm.
- The width of curtain exceed of the both sides and upper of window 20 cm.
- The pipe can be closed from both sides.
- In case if the fallen belt not exist, the curtain shall be fixed under the belt.
- In case if the wall's circulation not exist, the pipe should be rolled up to fit with the wall.
- Shall put enough and suitable stands to the pipe in the edge and middle including all needed accessory
- (Provide a sample).

Copper handle of good quality should be installed with a rope for curtains, provide a sample. Fabric guaranteed for 5 years against color change in sun or cloth falling apart.



CAURTEN FABRIC WITH VERTICAL SEGMENT

Curtains with vertical segment fabrics:

- These vertical curtains are made with strong sheets of fabric with top quality and free from artificial defects.
- The curtains color won't be affected with the sun heat.
- The strip is 12.7 cm wide.
- The strips stick to each other at closing with at least 1 cm distance from both sides.
- The strips are attached vertically by pendants that move through a heavy aluminum rod of 450gm/m weight. The strips are hanged by upper rattles through folds that are glued by thermal welding non-demountable, not with silicon
- The strips are kept vertically by a plastic weight attached to the ends of the folded strips similar to the upper ones. The attached body should weigh 40 gm of plastic resistant to breaking.
- The strips are attached below by plastic chains (unbreakable) connected along the moving part, installed in small circular rings at the end of the weight. To keep the distance between the strips and prevent interference when opening and closing.
- The strips move by trlen cordon to move the strips of the vertical level. It has a plastic weight at the end and plastic chains along the vertical axis

Color is based on demand, it's important to provide a sample of the curtains with measurements of: 100W X 80H

Item 8-3

Sun Strip Curtains

Curtains with vertical segment fabrics:

Supply and install aluminum and Turkish fiber curtains (Type Sun Strip Blinds or Zebra Blinds or equivalent), the price includes the upper rail 4cm Dia. of hot galvanized steel hidden inside aluminum rectangular section box 9*3.5cm, lower part of 1.2cm Dia. hot galvanized circular section and any required accessories and materials to complete the job as per specifications and engineer instructions. The fiber should be cut with laser machine.

Item 8-5

Carpet/Moket

Carpet/Moket:

Turkish carpet of 4m width. The height of the fabric is not less than 7 mm. Weight should not be less than 800gm\m. A sample of 30X30 with color catalog should be provided.

SPECIFICATIONS

Item 3-1

LASER PRINTER

Printing Specifications:

- Print Technology: Laser
- Print Quality: Up to 1200 \times 1200 DPI
- Print Speed: Up to 33 ppm or Higher
- Memory: 128 MB or Higher
- Monthly Duty cycle: Up to 50,000 pages or Higher
- Paper Trays: 2
- Input capacity: 250 Sheet
- Paper handling standard, output:150-sheet top output bin
- Connectivity: USB 2.0, Network (RJ45)

Warranty: 1 Year

يجب إرفاق كتالوج تفصيلي -

Item 1-1

Smart Board

Supply, install, commission of

Interactive finger-touch Projector (Known Brand)

Projection System: 3LCD, 3-chip technology Driving Method: Poly-silicon TFT Active Matrix Projection Method: Front/rear/wall mount/table

Wall mount included.

Pixel Number: 1,024,000 dots (1280 x 800) x 3 **Brightness (White &Color) -:** 3500 lumens

High Definition: HD ready

Aspect Ratio: 16:10

Native Resolution: 1280 x 800 (WXGA)

Contrast Ratio: Up to 14,000:1

Lamp Life: ECO Mode: Up to 10,000 hours, Normal Mode: Up to 5,000 hours

Interactive Connectivity: USB & Lan cable Interactive Technology: Infrared, 850 nm

Interactive Modes: Interactive and Whiteboard modes annotation, Pen: dual user, Finger: up to 6 points of

touch

Calibration Method: Automatic or Manual

Interactive Area: 60 – 100" diagonal (16:10, WXGA)

Zoom Ratio: Digital zoom: 1.0 - 1.35x

Additional Tools:
Projector remote control
Two (2) interactive pens
Pen tray—Pointer

Software Management Include

Item 12-1

Gas device

Supply, install, testing and commissioning as per the Client's and the Engineer approval the following items:-

فرش غاز

ستانلس ستيل 3 شعلة مع ولاعة.

اسطوانة غاز سعة 12 كيلو ممتلئة بغاز الطهي Turkish made or equivalent

Capacity 12 kg Tare weight: 13.2 kg Height =560mm Diameter =310mm

SPECIFICATIONS

Item 9-1

Hot and Cold Water Device

Supply, install, testing and commissioning as per the Client's and the Engineer approval the following items: -

Hot and Cold Water : کولر ماء ساخن/بارد Product Type: Hot and Cold Water Dispenser

Application: Dispenses hot and cold water in your home or office

Warranty: 1-year limited manufacturer's warranty

Voltage: 110 volts Frequency: 60 Hz

Certifications: CE, NSF, UL

Type: Bottled

Water Temperature: Hot & Cold

Compressor: Yes
Thermoelectric: No

Refrigerant Type: R-134a

Product Construction: Stainless Steel, Plastic

Finish: White

Hot Water Thermostat: Yes

Hot Water Thermostat Temperature Range: 185°F

Cold Water Thermostat: Yes

Cold Water Thermostat Temperature Range: 35.6-53.6°F Faucet Type: Durable polypropylene, self closingspickets

Energy Star Rated: Yes

Drip Tray Type: Removable one piece ABS drip tray

Compatible Bottle Sizes: 5 gallons Built-In Filtration System: No Includes Bottle Cover: No

Supply 2 Seat Electric Golf Ambulance Cart with Stretcher (DVJH-2) or equivalent according to the specifications below:

Model	DVJH-2
Passenger Capacity	2
Power supply	
Battery	8V170AH*6
Motor	48V3KW
Controller	American Curtis Electronics Controller
Charger	Full Automatic Efficiency Pulse Charger
Performance	
Max. Speed	18-24km/h
Max. travelling range	80-100km
Climbing capacity	30%
Brake Range	≤5m
Minimum turning radius	3m
Gross Weight	520kg
Chassis	
Steering	Self-Compensating "Rack& Pinion" Steering
brakes	Rear Wheel Mechanical Drum Brake and Regeneration Brake
tire	18*8.50-8,4Ply
Ground clearance	100mm
Overall dimension(L*w*h)	2720*1180*1890mm
Dimension for stretcher(mm)	1850*500*100mm
Standard parts	front and rear lights rear view mirrors Electric horn Rustproof body structure
Other parts	Loud speaker CD player Weather enclosure Side sunshade curtain 3 points seat belt for driver



Grass Cutting Machine Specifications

Engine

- 3 Cylinder
- Displacement: 904cm³
- Fuel Capacity: 19.7 liters
- Max. kW (hp) (ISO) 97/68/EC: 17.5 (23.5)
- Rated Engine kW (hp) ... ECE-R24 @ engine rpm: 16.5 (22.1) @ 3400 rpm

Power Train

- Cruise Control
- Differential Lock
- Forward Speed: 0km/h 13.7km/h
- Hydrostatic Transmission
- Selective Control Valves 2 dual SCV's

General

- 2-Wheel Steering
- Brakes: Internal wet disc
- Deck Lift System: Hydraulic
- PTO engagement Electro-hydraulic
- Steering/hydraulic flow: 17.6 l/min
- Turning Radius: 63.5cm (25")
- [Optional] See Features Tab

Dimensions

- Height overall w/o cab (incl. seat): 1346mm (53")
- Overall Length: 2012mm (79.2")
- Tyres Front: 18 x 8.50-10
- Tyres Rear: 26 x 12.00-12
- Weight (net w/o fuel): 470kg (1038lb)
- Wheelbase: 1415mm (55.7")