

ITEM NO :- 1

FOLDABLE CHAIRS

Supplying and fixing chair made from Ghana teak wood frame in back, cushion in seat and MS powder coated under structure. Seat to be made from geo foam, fabric rubber . Fabric Basic Rate Rs,350/- Per Mtr. Wood to be finished with malamine polished.

Scope of work:

Chair should be fixed on floor with manufacturer's specification. Seat should be folded. Only one armrest to be provided between two chair. there should be approx..15 chair in one raw.

Workmanship

Complete one row in proper line. Malamine polishes to be spray as per company's specification. Seat depth, width and ht. of chair maintain even. Fabric should be rape on entire sides with proper stitching.

Mode of measurement & payment.

The rate shall be paid for a unit of one no.

Item no :- 2

Low back chair –

HOF MAKE.model no. Ril 7004

Supplying and providing low back revolving & tilting height adjustment chair as below specification. Cushioned Seat , Mesh back,fix pp handle, Center tilt mechanism with single back lock, gas lift for seat height adjustment, five prong Nylon base with twin wheel castor. Overall dimension: min:H-850mmXW-490mmXD-470mm, Max.:950mmXW-490mmXD-mm.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement. Quantity will measure in No.

ITEM NO :-3

TRAINING CHAIR

Supplying and placing the chair with tablet having understructure of MS Frame duly powder coated. The seat to be made of Polypropylene. The back and arm pads to be textured finished in Matte black and made of Polypropylene for ease of cleaning. The frame should have a utility basket mounted below the seat for keeping of miscellaneous material like books. The utility tray should have a facility of being removed when required. The back to have an aperture with soft hand grip for the ease of moving the chair and should provide a firm grip for the movement. The legs to have anti-skid nylon grips. The chair should have the flexibility of joined together when required with the help demountable joineries. The arm rest to have an ABS writing pad for training requirements. The sizes of the chairs to be :-Seat :- 469 (D) X 480 (W) Back :- 490 (W) X 280 (H) Armrest :- 214mm high from the seat.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement. Quantity will measure in No.

Item no :4**Medium back chair**

HOF MAKE.model no.Marco ITO 1002 Supplying and providing high back revolving & tilting height adjustment chair as below specification. Meduim back mesh chairs , Adjustable armrest with P U pad, Gas lift for seat height adjusment, Mesh Back , Synchro tilt Michenism with single position back lock.Five prong Nylon base with twin wheel castor,Seat PU mouldED Cushioned on ply. Overall dimension: min:H-910mmXW-660mmXD-470mm,Max.:990mmXW-650mmXD-470mm.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement.

Quantity will measure in No.

Item no : 5**Medium back chair**

HOF MAKE.model no.Marco ITO 1002 Supplying and providing high back revolving & tilting height adjustment chair as below specification. Meduim back mesh chairs , Adjustable armrest with P U pad, Gas lift for seat height adjusment, Mesh Back , Synchro tilt Michenism with single position back lock.Five prong Nylon base with twin wheel castor,Seat PU mouldED Cushioned on ply. Overall dimension: min:H-910mmXW-660mmXD-470mm,Max.:990mmXW-650mmXD-470mm.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement.

Quantity will measure in No.

Item no : 6**HIGH BACK CHAIR**

Supplying and placing high back chair with headrest having outer frame of back rest made up of injection moulded in black glass filled nylon and upholstered with mesh fabric. Lumber support made up of injection moulded in black nylon. Lumber Support height 132mm and can be adjusted up to 35mm up-down. Back rest available in two sizes - High Back (HB) 795+40mm (H) X 535mm (W) with Head rest. The backrest tested for 1,20,000 cycles to be completed with a load of 44.5Kg as per ANSI / BIFMA X5.1. HEAD REST FOAM :- The head rest outer made up of injection moulded in black nylon and Inner made up of injection moulded in black polypropylene. 23mm thick moulded polyurethane foam upholstered with fabric. Headrest Size

260mm(W) X 150mm(H) and can be adjusted up to 40mm up-down and has angular adjustment of 10deg. Foam made out of moulded Polyurethane foam SEAT :- The seat is made up of 12mm thick (7 layers) hot pressed plywood and moulded seat foam upholstered with fabric. Seat Size 510mm (W) X 535mm (D). The seat tested for 1,00,000 cycles to be completed with a load of 57kg impact force on the seat. FIXED ARM ("7" TYPE) : The arm rest made up of injection moulded from block polypropylene. Arm rest size 290mm (L) x 57mm (W). Arm rest tested for 60,000 Cycles to be completed with load of 40Kg as per ANSI / BIFMA X5.1 MECHANISM :- Multi POINT SYNCHRO MECHANISM. Mechanism made out of MS Plate thickness is 3mm. Mechanism tested for 3, 00,000 Cycles as per ANSI / BIFMA X5.1. GAS LIFT :- Class 4 Gas lift pipe diameter 50mm and has an Height adjustment stroke of 112mm. Gas lift tested for 1, 00,000 Cycles as per ANSI / BIFMA X5.1. and all applicable ANSI/BIFMA, EN performance standard. BASE :- NYLON BASE : The base made up of injection moulded in black glass filled nylon and fitted with 5Nos twin wheel castors. The base is 658mm pitch circle diameter. The base tested for static load of 1134Kg as per ANSI / BIFMA X 5.1. CASTERS :- NYLON CASTORS : The twin wheel castors are injection moulded in nylon and diameter of Castor 60 mm. The castors are tested for 1,00,000 Cycles as per ANSI / BIFMA X 5.1.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement.

Quantity will measure in No.

Item no : 7

TEACHER'S CHAIR

Supplying and placing the visitor chair with SEAT/BACK ASSEMBLY: The S contoured back and Lumbar support are carefully profiled to fit snugly to the back to offer maximum support. The back is made up of a two piece injected moulded frame in S shape framework. The inner side is upholstered with high tensile and elastic Mesh fabric to bear the pressure and weight of the back while sitting. The seat is made up of moulded PU foam, upholstered with mesh fabric having high tensile strength. The back has an adjustable lumbar support which provides an ergonomic solution irrespective of the person's height. 2) POLYURETHANE FOAM: The polyurethane foam for seat is moulded having high density. 45 +/- 5 kg/m³ and hardness of 14+/-2 at 25% compression. 3) ARMRESTS (2D-ADJUSTABLE) : The armrest top is injection moulded in polyurethane pad 250mmX80mm and mounted on the injection moulded height adjustable type armrest with 80 mm adjustability range. Base - Understructure made up of ERW tube Dia 25.4mm and Thickness 2mm.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement.

Quantity will measure in No.

Item no : 8

WORKSTATIONS(Modular)

Workstation (4 person cluster), overall size: 3000 x 3000 x 1210H 25mm th. Pre laminated top finished with 2 mm th. hot pressed PVC edge banding (German make). 60 mm dia wire manager. 18mm th. PLB leg supports.

Modular Parttion, 80 mm th., 1210 mm high, made of Aluminum alloy frame, Soft board / writing board at upper level & 12 mm th. PLB tiles below. Raceways are provided for concealed cabling of power & data, cutouts for switch sockets as per requirement.

Side storage with 2 drawers & 2 swing shutters, size: 900L x 400D x 750H. Top made of 25mm thick prelaminated board, Carcass, facia, shutters & shelves made of 18 mm th. PLB. Back made of 3 mm compact laminate. Auto close hinges, handles & lock.

Scope of work:

Contractor should provided one sample for approval befor procurement of chairs.

Mode of measurement.

Quantity will measure in No.

Item no : 9

Providing SIDE Table 600 x 600 x 400mm having 12mm Glass top with itching and L shaped post formed legs made from 18mm MDF boards and Post lamination. All edges are covered with 0.8mm PVC edge bands glued by hot melt glue on automatic edge banding machine. KD fitting: Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD - 32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts, as specified in specification sheet.

Material & Workmanship:-

Top: 600X600 is made from 12mm Glass with itching film on one side.

Legs in L shaped and connecting cross members are made from 18mm both side pre laminated PB joined with cross members made from with edges are covered with 2mm PVC edge bands glued by hot melt glue on automatic edge banding machine with pre milling attachment.

Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD -

32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts.

KD fitting: Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD - 32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts.

Mode of Measurement & Payment:

The rate shall be for unit of one number.

ITEM NO:-10

CENTER TABLE(RECTANGULAR 1200MM X 750 MM X 351mm ht.)

Scope of work:

Supplying and placing PISA – Center Table Glass with 12 +/- 0.3 mm thick black tinted toughened glass UV glued with bushes made is SS 202 grade for fixing with understructure. Understructure is welded assembly made in SS202 grade having dia 12 +/- 0.04 as per IS : 1762. Size: 112 cm (W) x 60 cm (D) x 35.1 cm (H)

Table should be complete with all necessary hardware. all material should be use as per approved brand like: glass,SS leg etc.

Workmanship

Edges of glass to be finished with beveled edges. SS leg radius is even and proper finished.

Mode of measurement & payment.

The rate shall be paid for a unit of one no.

ITEM NO:-11

CENTER TABLE(RECTANGULAR 900MM X 450 MM)

Scope of work:

Supplying and placing PISA – Center Table Glass with 12 +/- 0.3 mm thick black tinted toughened glass UV glued with bushes made is SS 202 grade for fixing with understructure. Understructure is welded assembly made in SS202 grade having dia 12 +/- 0.04 as per IS : 1762. Size: 112 cm (W) x 60 cm (D) x 35.1 cm (H)

Table should be complete with all necessary hardware. all material should be use as per approved brand like: glass,SS leg etc.

Workmanship

Edges of glass to be finished with beveled edges. SS leg radius is even and proper finished.

Mode of measurement & payment.

The rate shall be paid for a unit of one no.

ITEM NO:-12

READING TABLES(1500MM X 1200MM)

Material & Workmanship:-

Desk Unit for Executive : 1500 x 1200 mm.

Top: Size 1500 x 1200 x 18 mm and is Made from 18 mm MDF board covered with post formed lamination. The edges are contoured with 9mm radius on both sides; other face is covered with backer lamination. All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.

Gable Ends: Made from 25 mm Teak particle board covered with 0.8 mm post formed laminated with 9 mm radius on both sides, other face is covered with backer lamination. All edges are covered by 0.8 mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.

Modesty panel: Made from 18mm both side pre laminated particle boards.

KD fitting: Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD - 32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts.

Mode of Measurement & Payment:

The rate shall be for one number. The rate shall include cost of all materials, fixtures, joineries etc. & labour to complete the work satisfactorily as per instructions of Architect/engineer in charge.

ITEM NO:-13

LIBRARY(Reception)2100MM X 750MM

Entire table and drawer box to be made from 19mm ply with exposed side 1.0mm thick laminate and inner side balancing laminate. Partly 12mm thick bevelled edge glass to be fixed with SS sturd . Partly vertical 12mm thick glass to be provided with SS D bracket.

Drawers slid on telescopic chanel. And it should be lockable and SS handle.

Workmanship

Edges of glass to be finished with beveled edges. SS leg radius is even and proper finished.

Mode of measurement & payment.

The rate shall be paid for a unit of one no.

ITEM NO:-14

LIBRARY(RECEPTION Return Table)2100MM X 450MM

Entire table and drawer box to be made from 19mm ply with exposed side 1.0mm thick laminate and inner side balancing laminate. Partly 12mm thick bevelled edge glass to be fixed with SS sturd . Partly vertical 12mm thick glass to be provided with SS D bracket. Drawers slid on telescopic chanel. And it should be lockable and SS handle.

Workmanship

Edges of glass to be finished with beveled edges. SS leg radius is even and proper finished.

Mode of measurement & payment.

The rate shall be paid for a unit of one no.

ITEM NO :-15

Providing Conference table as per layout: Top made from 36 mm thick MDF board covered with 4 mm th. Veneer, finished with PU coating. Other face is covered with backer lamination. The edges are finished with matching wooden beading. Anodized finish Flip boxes to be provided on top, to facilitate power / data access. A cable tray to be provided below top to pass the cables. Understructure made of pre-laminated boards. Edges to be covered by 2 mm PVC edge bands glued by hot melt glue applied by auto edge banding machine. Joinery to be done using KD system fittings. Shape, shades and accessories to be approved by chief architect before starting the work.

Material & Workmanship:-

Gable ends: Made from 36mm thick pre-laminated boards. All edges are covered by 2mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.

Modesty panel: Made from 18mm both side pre-laminated particle boards. Additional cable tray below work top to be provided with entry provision from both ends.

KD fitting: Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD - 32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts.

Mode of Measurement & Payment:

The rate shall be for one number. The rate shall include cost of all materials, fixtures, joineries etc. & labour to complete the work satisfactorily as per instructions of Architect/engineer in charge.

ITEM NO :-16**OFFICE TABLES(CUSTOMIZED) Size:**

Worksurface-2 layers of 18 mm thick MFC with 3 mm PVC edging. Edging of 2 colour tone ,Side panels Legs-MFC covered with 45 mm MDF profile at vertical edges. Connected to the top panel by minifix & wooden dowels. Adjustable Stud. Also 2 nos. of 75 diameter epoxy black painted metal leg to enable ERU top panel to slot into it. Adjustable base of levelling available. 18 mm thick MFC with curved shape. Connected to Top & Side panels with minifix fitting & Wooden dowels, Mobile Pedestal-2 Drawers (1 personal drawer + 1 filing drawer with central lock).Top drawer is pencil tray 280 x 280 mm. Carcass 18 mm thick MFC and 25 mm thick top panel with 2 mm PVC edging. Black Metallic handles 128 mm distance. 450 mm L runner. Castor of 50 mm diameter x 4 Nos, ERU, Work surface-18 mm thick MFC with 3 mm PVC edging. Edging of 2 colour tone,,Storage-4 Drawers with central lock. Top drawer is pencil tray 280 x 280 mm. Carcass 18 mm thick MFC and 25 mm thick top panel. Black Metallic handles 128 mm distance. 450 mm L runner. 55 diameter x 25 mm H Plastic adjustable glide. Connected to Top with metallic support tube of size 60 mm H x 75 diameter

Scope of work:

All material to be use as per approved manufacturers specification. Rates are including transportation charge, installation charge etc.

Mode of measurement & payment

The payment shall be made per no. of finish work. No wastage should be count for measurement/payment. The rate shall be paid for a unit of one no.

ITEM NO :-17**OFFICE TABLES(CUSTOMIZED) Size: ASST. PROFESSOR'S CABIN(1800MM X 750MM)**

Top made of 25mm th. PLB, legs and modesty made of 18mm th. PLB. 2mm th. PVC edge band- machine pressed with hot melt glue. 60 mm dia. Wire manager. Complete joinery with KD fittings.

Scope of work:

All material to be use as per approved manufacturers specification. Rates are including transportation charge, installation charge etc.

Mode of measurement & payment

The payment shall be made per no. of finish work. No wastage should be count for measurement/payment. The rate shall be paid for a unit of one no.

ITEM NO :-18

OFFICE TABLES(CUSTOMIZED) Size: PROFESSOR'S CABIN(2100MM X 750MM)
Professor & Librarian Desk, size: 2100 L x 750 D x 750 mm H Top made of 25mm th. PLB, legs and modesty made of 18mm th. PLB.2mm th. PVC edge band- machine pressed with hot melt glue. 60 mm dia. Wire manager. Complete joinery with KD fittings.

Scope of work:

All material to be use as per approved manufacturers specification. Rates are including transportation charge, installation charge etc.

Mode of measurement & payment

The payment shall be made per no. of finish work. No wastage should be count for measurement/payment. The rate shall be paid for a unit of one no.

ITEM NO :-18

TEACHER'S TABLE(1500MM X 900MM)

Providing and fixing entire table with one drawer box made from 19mm thick commercial ply with 1.5m thick laminate, drawer to be made with 12mm thick ply with balancing laminate. Drawer having S.S. handle, lock & solid on telescopic channel. All open edges to be finished with 2mm thick PVC edge beading complete with all necessary hardware fittings.

Top: Size 1500 x 900 x 18 mm and is Made from 18 mm MDF board covered with post formed lamination. The edges are contoured with 9mm radius on both sides; other face is covered with backer lamination. All edges are covered by 0.8mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.

Gable Ends: Made from 25 mm Teak particle board covered with 0.8 mm post formed laminated with 9 mm radius on both sides, other face is covered with backer lamination. All edges are covered by 0.8 mm PVC edge bands glued by hot melt glue applied by auto edge banding machine.

Modesty panel:Made from 18mm both side pre laminated particle boards.

KD fitting: Entire table is assembled through 8mmX45mm concealed bolt with 15mm eccentric cranks, 8mm wooden dowels, etc. Complete drilling and boring work is done on Multi drill machine in KD - 32 System. All mounting holes are notched in all axis simultaneously in single reference. Complete interchange ability is required in all parts.

Mode of Measurement & Payment:

The rate shall be for one number. The rate shall include cost of all materials, fixtures, joineries etc. & labour to complete the work satisfactorily as per instructions of Architect/engineer in charge.

ITEM NO:-20

(A) Three Seater Sofa

Providing Three Seated SOFA of size 4'-0" x 2'-6" of Indian Teak wood members with Finished size and shape shall be as per given in the Drg. Quality of Teak wood shall be conforming to IS Specification. All members shall be joining as per design in line level and perpendicular each other. s.s. pipes ,s.s boltAt every joint each members shall be join each other by means of good quality adhesive and Screws of required size and numbers. Each member shall be flush with other members as per drawing and after finishing, it shall be of size same as given in drawing. All exposed Indian teak wood members shall be polished with three coat of Melamine polish after staining in approved shade of specific tint complete as per Instruction. Good quality 8 mm thick waterproof plywood, of required size, as per drawing, should be fix above frame with necessary tools, tackles, adhesive screws, nails, jindal rexin as directed by Engineer In charge. Seat and Back cushion made from High density U-Foam, conforming to, of approved make with Seat of 6" thick and Back of 4" thick of required size, as per drawing, covers it with selected TWO SEATER SOFA as per photo attached.

Material:

Plywood shall be BWR ply of required thickness as specified in the item description and shall confirm to the requirements laid in IS 303 and shall confirm to all the relevant specifications at M-37 of material specifications.

Teak Wood (Ghana and/or Ivory Cost) shall be of best quality anti termite treated and kiln seasoned Ghana teak wood selected and sorted for uniform veins as per approved sample by architect/EIC and shall confirm to all the relevant specifications at M-29 of material specifications.

Lacquer polish and melamine polish shall confirm to M 45 A and M 45 C respectively as laid in the material specification. Hardware items shall be used from the list of the approved make and as per sample approved by the Architect and/or Engineer – in – Charge.

Workmanship:

Workmanship shall be of best quality and as approved by EIC / Architect and work shall be done on the basis of the approved shop drawings.

Sample or mock up shall be made and installed and shall be got approved from the EIC/Architect prior to mass production and prior to preparation of the sample, the shop drawing shall be prepared by the contractor and the same shall have to be approved by the architect/EIC.

Mode of measurement & Payment:

The item shall be measured and paid for a unit on no. The rates shall be inclusive of all material, labour, wastages, taxes, transportation, loading, unloading, fixing in position at all floors/all heights and all levels, etc. complete to the satisfaction of the Architect and EIC.

(B)Two Seater Sofa:-

Providing double Seated SOFA of size 4'-0" x 2'-6" of Indian Teak wood members with Finished size and shape shall be as per given in the Drg. Quality of Teak wood shall be conforming to IS Specification. All members shall be joining as per design in line level and perpendicular each other. s.s. pipes ,s.s boltAt every joint each members shall be join each other by means of good quality adhesive and Screws of required size and numbers. Each member shall be flush with other members as per drawing and after finishing, it shall be of size same as given in drawing. All exposed Indian teak wood members shall be polished with three coat of Melamine polish after staining in approved shade of specific tint complete as per Instruction. Good quality 8 mm thick waterproof plywood, of required size, as per drawing, should be fix above frame with necessary tools, tackles, adhesive screws, nails, jindal rexin as directed by Engineer In charge. Seat and Back cushion made from High density U-Foam, conforming to, of approved make with Seat of 6" thick and Back of 4" thick of required size, as per drawing, covers it with selected TWO SEATER SOFA as per photo attached.

Material:

Plywood shall be BWR ply of required thickness as specified in the item description and shall confirm to the requirements laid in IS 303 and shall confirm to all the relevant specifications at M-37 of material specifications.

Teak Wood (Ghana and/or Ivory Cost) shall be of best quality anti termite treated and kiln seasoned Ghana teak wood selected and sorted for uniform veins as per approved sample by architect/EIC and shall confirm to all the relevant specifications at M-29 of material specifications.

Lacquer polish and melamine polish shall confirm to M 45 A and M 45 C respectively as laid in the material specification.

Workmanship:

Workmanship shall be of best quality and as approved by EIC / Architect and work shall be done on the basis of the approved shop drawings.

Sample or mock up shall be made and installed and shall be got approved from the EIC/Architect prior to mass production and prior to preparation of the sample.

Mode of measurement & Payment:

The item shall be measured and paid for a unit on no. The rates shall be inclusive of all material, labour,

(C)ONE Seater Sofa:-

Providing double Seated SOFA of size 4'-0" x 2'-6" of Indian Teak wood members with Finished size and shape shall be as per given in the Drg. Quality of Teak wood shall be conforming to IS Specification. All members shall be joining as per design in line level and perpendicular each other.

s.s. pipes ,s.s boltAt every joint each members shall be join each other by means of good quality adhesive and Screws of required size and numbers. Each member shall be flush with other members as per drawing and after finishing, it shall be of size same as given in drawing. All exposed Indian teak wood members shall be polished with three coat of Melamine polish after staining in approved shade of specific tint complete as per Instruction. Good quality 8 mm thick waterproof plywood, of required size, as per drawing, should be fix above frame with necessary tools, tackles, adhesive screws, nails, jindal rexin as directed by Engineer In charge. Seat and Back cushion made from High density U-Foam, conforming to, of approved make with Seat of 6" thick and Back of 4" thick of required size, as per drawing, covers it with selected TWO SEATER SOFA as per photo attached.

Material:

Plywood shall be BWR ply of required thickness as specified in the item description and shall confirm to the requirements laid in IS 303 and shall confirm to all the relevant specifications at M-37 of material specifications.

Teak Wood (Ghana and/or Ivory Cost) shall be of best quality anti termite treated and kiln seasoned Ghana teak wood selected and sorted for uniform veins as per approved sample by architect/EIC and shall confirm to all the relevant specifications at M-29 of material specifications.

Lacquer polish and melamine polish shall confirm to M 45 A and M 45 C respectively as laid in the material specification.

Workmanship:

Workmanship shall be of best quality and as approved by EIC / Architect and work shall be done on the basis of the approved shop drawings.

Sample or mock up shall be made and installed and shall be got approved from the EIC/Architect prior to mass production and prior to preparation of the sample.

Mode of measurement & Payment:

The item shall be measured and paid for a unit on no. The rates shall be inclusive of all material, labour,

ITEM NO:-21

Carpet (Conference room)

Providing and Fixing of Bike path(Interface) 475 gsm 100% Solution Dyed quality, level construction tufted loop pile 100% Nylon 6.6 (BCF) recycled carpet tile. Backing glassBac, carpet gauge 1/12" in the size of 25cm X 1mtr Commercial extra Heavy duty carpet tile. Carpet tile is flame resistant ASTM E648 Class 1 with Electrostatic Anti-static properties AAATCC 134<3000 volts. The carpet has to be fixed with Aerobond solution.

Scope of work:

If floor is uneven, contractor has make even floor with proper material. No extra charge will be paid.

Workmanship

It should be maintain even surface and lvl.Even joints. The carpet has to be fixed with Aerobond solution. It should be tile base.

.Mode of measurement & payment

The payment shall be made on Sq.mt. (LxW) of finish work.No wastag should be count for measurement/payment.

The rate shall be paid for a unit of one square meter.

Item No. 22 :-

BOOK rack (Double face)

Rigid knock down construction. Panels made from CRCA*0.6 mm thk and front frame made from CRCA*0.8 mm thk. CRCA'D' Grade as per IS 513. 5 level racks, Suitable for fullscope size magazines, periodicals, Aesthetically appealing metal tray at an angle for easy viewing, receding facility to access the storage behind sliding on plastic rollers, each of 5 level has a behind storage shelf, uniformly distributed load capacity per each shelf is 40 kg maximum. screw type leveler with hex plastic base, epoxy polyester powder coated to the thickness of 50 microns.

Material & Workmanship:-

TECHNICAL SPECIFICATION

(For Mechanically Driven Units)

Basic Manufacturing Criteria :

- BASE FRAME : In welded Fabrication construction
- Superstructure in knockdown construction
- Load per shelf : 60 to 70 kgs. (Minimum 12 BEND of shelf required)

DESIGN OF COMPONENTS:

The Storage system components are designed based on IS 800 / IS 801. The factor of safety is considered as 1.67 while designing with respective to yield stress.

RAW MATERIAL :

The material used for components shall confirming to IS 513 / IS 10748 / IS 1079 as required and designed for such components.

FASTNERS :

All fasteners provided shall electogalvanised confirming to IS 3655 - 1985. Chemical Mechanical properties confirming to IS 1367-1979.

The Compactor storage system comprises of broadly two parts,

- 1) Base Frame.
- 2) Superstructure.

BASE FRAME :

Base frame will be fabricated in Channel type from 10 G H.R.C.A. Sheet to form a channel of Size : 45 mm X 100 mm X 45 mm./25 mm x 100 mm x 25mm

GUIDE RAILS :

The guide rails comprises of solid round bar of ϕ 30 mm (Bright bar) press fit in to 'U' channel of 10 G prime quality CRCA sheet. The channels will have flanges on either sides. This setup is then anchored to the floor by means of expansion bolts.

DRIVE MECHANISM :

Drive Mechanism will be provided externally supported on special grade anti-friction bearing to have smooth and effortless movement. Entire mechanism or gear and sprockets will be incorporated within the front panel provided in the front of the Unit within an area of Ht. of Unit.X200mm X50 mm.

- 1) Each compactor will have 4 Nos. of Cast Iron Wheels of Size : 128 X 35 mm. Each wheel will be provided with a pair of self-aligned heavy duty pedestal type bearings.
- 2) The drive Mechanism will comprise of sprocket chain type arrangement.
- 3) The chain used will be 1/2" traction chain of 'Diamond' or 'rollon' make.
- 4) The drive mechanism will only be provided on the external front side of the compactor systems i.e. effective storage area inside the compactor will not be disturbed. The entire drive mechanism will be concealed from all sides from the safety point of view.

DRIVING WHEEL

Driving wheel will comprise of a central hub resting on a pair of roller bearings with 3 insert able arms engaging into the hub. The entire component will be chrome plated for better finish & longer life. The central hub will consist of the unit locking arrangement for preventing the unit from moving when in use.

DRIVE COVER PANEL :

Made out of 22 SWG thick C.R.C.A. prime quality steel and of Box type to cover the entire drive mechanism completely. The drive cover panel will be of full height i.e. it will be of unit Height.

S U P E R S T R U C T U R E

Super structure of the Compactor storage system will be essentially collapsible or Knock down type. Each component of the compactor such as shelves, front panel, end panel, vertical rear panel, centre partition etc., will act as an integral member of the Unit as a whole.

SHELVES :

Boltless type shelves will be made of 22 SWG thick C.R.C.A, quality steel having 12 folds each designed to carry a U.D.L. of 60 to 70 Kgs. (with required strengthening to the shelf)

VERTICAL PANEL :

Vertical panel consists of the front, centre & rear panel will be made out of 22 SWG mm thick C.R.C.A. Prime quality steel and designed to take the load of shelves on clip arrangement (for boltless shelving). The panels will have ribs / stiffeners in the centre along the height for additional strength.

CENTRE PARTITION :

The Centre partition will comprise of a full C.R.C.A. prime quality 22 Sheet.

CENTRAL LOCKING :

System will be provided with centralized locking arrangement on the last Unit when all the Units are brought together, central lock when operated gets locked with the floor and does not allow access to the Units.

INDEXING ARRANGEMENT :

Two Numbers of Acrylic indexes (250 X 150 X 2.5 mm thick) will be provided on each Front panel of the compactor unit for easy identification and retrieval.

ANTI RUST TREATMENT :

All the items will be supplied duly powder coated in the manufacturers work shop. Marks if any during the transportation will be touched up at site to match the surface. All the components will be given 4 stage, 7 steps anti corrosive treatment. Before carrying out powder coating pretreatment to steel surface will be carried out such as degreasing, pickling & Phosphating.

Degreasing will be carried out by using caustic soda, soda ash, Bi sodium phosphate & sulphuric metasilicate in proper concentration at closely controlled temperature. The component after degreasing will be rinsed in water

Pickling will be carried out by subjecting the component to sulphuric acid solution for a specified time and washing them again with water.

The degreasing and pickling will be confirmed to requirement of IS 3194.

Phosphating will be carried out by subjecting the components to a treatment in phosphoric acid tank with sodium bitrate as accelerator so that a fine coating is achieved. The procedure contained in IS-6005 and IS-3618 will be adhered to.

Passivation is done by subjecting the component to dilute chromic acid rinsing.

FINAL FINISH :

Each component of the system shall be treated with rust preventive treatment and all the components will be powder coated in required shade from standard range.

S A F E T Y F E A T U R E S

INDIVIDUAL UNIT LOCK

Each Compactor unit will be provided with individual unit locking arrangement in built into the hand wheel of the system. The unit will not move from its position when the lock is engaged during operation for total safety of the user.

CENTRAL LOCKING

Each system will be provided with central lock to enable locking of the entire system with one key.

STOPPERS

Each system will be provided with stoppers on either ends of the rails to prevent the Compactor unit from moving away from the rail.

Mode of Measurements & Payments:

All the above said work is carried out as Job work including cost of all materials, fixtures, joineries etc. & labour to complete the work satisfactorily as per instruction of Engineer-in-charge. No Extra payment will be given for any of the reasons.

The rate shall be for each unit of Size 905 mm L x 900 mm W x 2130 Ht.

Item No. 23 :-

BOOK rack (SINGLE face)

Rigid knock down construction. Panels made from CRCA*0.6 mm thk and front frame made from CRCA*0.8 mm thk. CRCA'D' Grade as per IS 513. 5 level racks, Suitable for fullsize magazines, periodicals, Aesthetically appealing metal tray at an angle for easy viewing, receding facility to access the storage behind sliding on plastic rollers, each of 5 level has a behind storage shelf, uniformly distributed load capacity per each shelf is 40 kg maximum. screw type leveler with hex plastic base, epoxy polyester powder coated to the thickness of 50 microns.

Anti Tilt & Anti Skew Arrangement

Each Single Face BOOK unit will be provided with Anti Tilt & Anti Skew arrangement on the rear side of the unit. This will prevent the unit from Toppling. Anti tilt arrangement is a very essential arrangement of the Mobile storage system, this are a pair of bearings, suspended from the base unit moving in a ground rail and guiding the unit while in motion.

The other Technical specification for this item shall be followed as per Item No. 4A

Mode of Measurements & Payments:

All the above said work is carried out as Job work including cost of all materials, fixtures, joineries etc. & labour to complete the work satisfactorily as per instruction of Engineer-in-charge. No Extra payment will be given for any of the reasons.

The rate shall be for each unit of Size 905 mm L x 450 mm W x 2130 Ht.

Item No. : 24

Providing and fixing magazine rack made from MS powder coated frame with 2 or 3 perforated shelves. Complete with as per attached image

Material & Workmanship:-

- Ready to assemble type, Self-standing storage unit having depth 450mm as per requirements with following details:
- Carcass and shelves: 18 mm, both sides Pre laminated particle board with 0.8mm thick PVC edge bands glued with hot melt Glues on auto edge banding machine. All panels should be interchangeable to facilitate assembly at site. The shelves are connected with body through adjustable shelf supports.
- Back Panel: 3mm high pressure compact sheet both side laminated hold in slit formed in the body.
- Shutters: 18 mm both side pre laminated particle board with 2 mm thick PVC edge bands glued with hot melts Glues on auto edge banding machine with pre milling attachment, Hinged with concealed auto clip-on system "Blum", "Grass" or "Ferrari" make OR 18 mm one side pre laminated board with 2 mm thick PVC edge bands glued with hot melt glues on auto edge banding machine with pre milling attachment, hinged with concealed auto clip-on system or top sliding mechanism with 25 x 25 mm aluminum extruded channels. Top mounted laterally guided ball bearing blocks.
- Handles: Recessed handles of Aluminum with anodized finish.
- KD fittings: 8 mm x 45 mm concealed bolt with 15 mm eccentric cranks, 8 mm jute dowels, 75 x 50 mm M.S. brackets, etc. complete.
- Drilling and boring work is done on Multi drill machine in KD-32 system. All mounting holes are notched in all axis simultaneously in single reference. The maximum span between two adjacent holes should not be more than 96 mm.

Mode of Measurements & Payments:

The rate shall be for a unit of **one Sq.mt** of Elevation

Item No. 25:

Providing and fixing pigeon rack made from 19mm ply with 1.0mm laminate on outer side, inner side balancing laminate. Open edge to be finished with ghanateak beading in polished. Approx. 40 nos division to be provided.

Material & Workmanship:-

- Ready to assemble type, Self-standing storage unit having depth 450mm as per requirements with following details:
- Carcass and shelves: 19 mm, both sides Pre laminated particle board with 0.8mm thick PVC edge bands glued with hot melt Glues on auto edge banding machine. All panels should be interchangeable to facilitate assembly at site. The shelves are connected with body through adjustable shelf supports.
- Back Panel: 3mm high pressure compact sheet both side laminated hold in slit formed in the body.

Mode of Measurements & Payments:

The rate shall be for a unit of NOS of Elevation.

Item No. 26:

ACOUSTICAL PANELLING

Acoustical Wall Paneling' with square edges made of fibre glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and classified for Fire reaction Class A as per ASTM E-84, fabric with an option of colors – Husk, Copper, Sangria, Sesame, Coffee, Charcoal, Titanium, Flame, Peanut & Shell as per the choice of the Architect of size 600X600 OR 600X1200 mm providing a minimum sound absorption level of 0.85 NRC to be affixed to wall using Wall panel impellers supplied by M/s Armstrong Industries India Pvt. Ltd and construction adhesives as per the instructions laid down by the manufacturer.

INSTALLATION:

4nos. Armstrong wall panel Impellers of shall be fixed to the wall surface using self-tapping screws. Silica based construction adhesive to be dabbed on to the projecting elements (spikes) of the impellers. Armstrong Optra wall panels shall be pierced through the spikes of the impellers ensuring the line and level of the panels are maintained. Installation to be carried out by Armstrong Trained Installation team & Installation should be carried out as per Armstrong recommended procedure.

Scope of work:

If wall is uneven, contractor has make even wall with proper material (pop). No extra charge will be paid. All material to be use as per approved brand specification. Extra frame work to be fixed if any required.

Workmanship

Paneling should be in line and level. Maintain equal groove, pattern as directed by Architect. It should be proper sound absorb.

Mode of measurement & payment

The payment shall be made on Sq.mt. (LxW) of finish work.No wastag should be count for measurement/payment.

The rate shall be paid for a unit of one square meter. Length into visiable ht.

Item No. 27:

CARROLS

Library Carrels, 4 person cluster, overall size : 2060 x 2000 ,25mm th. Pre laminated top finished with 2 mm th. hot pressed PVCedge banding (German make). 60 mm dia wire manager. 18mm th. PLBleg supports.

. MATERIAL & WORKMANSHIP

Library Carrels, 4 person cluster, overall size : 2060 x 2000 ,25mm th. Pre laminated top finished with 2 mm th. hot pressed PVCedge banding (German make). 60 mm dia wire manager. 18mm th. PLBleg supports.

. MODE OF MEASUREMENT

The rate shall be for a unit of NOS of Elevation.

Library Carrels, 2 person cluster, overall size : 1060 x 2000 ,25mm th. Pre laminated top finished with 2 mm th. hot pressed PVCedge banding (German make). 60 mm dia wire manager. 18mm th. PLBleg supports.Modular Parttion, 80 / 30 mm th., 1210 mm high, made of Aluminum alloyframe, Soft board / writing board at upper level & 12 mm th. PLB tilesbelow. Raceways are provided for concealed cabling of power & data, cutouts for switch sockets as per requirement.

. MATERIAL & WORKMANSHIP

Library Carrels, 2 person cluster, overall size : 1060 x 2000 ,25mm th. Pre laminated top finished with 2 mm th. hot pressed PVCedge banding (German make). 60 mm dia wire manager. 18mm th. PLBleg supports.Modular Parttion, 80 / 30 mm th., 1210 mm high, made of Aluminum alloyframe, Soft board / writing board at upper level & 12 mm th. PLB tilesbelow. Raceways are provided for concealed cabling of power & data, cutouts for switch sockets as per requirement.

. MODE OF MEASUREMENT

The rate shall be for a unit of NOS of Elevation.

Item No. 28:

25mm th. Pre laminated top finished with 2 mm th. hot pressed PVC edge banding (German make). 60 mm dia wire manager. 18mm th. PLB leg supports. Drawer pedestal (top supporting) with 1 drawer & 1 cabinet: 300 W x 450 D x 725 mm H. Made of 18 mm th. PLB & compact laminate, metabox Modular Parttion, 80mm th., 725 mm high, made of Aluminum alloy frame, Soft board / writing board at upper level & 12 mm th. PLB tiles below. Raceways are provided for concealed cabling of power & data, cut-outs for switch sockets as per requirement.

Scope of work:

All material to be use as per approved manufacturers specification. Rates are including transportation charge, installation charge etc.

Mode of measurement & payment

The payment shall be made per no. of finish work. No wastage should be count for measurement/payment. The rate shall be paid for a unit of one no.

Item No. 29:

Providing and fixing pinup boards. It consist 12mm soft boards of good density to be mounted over 12mm ply. The soft board will be covered with a plain fabric (appox Rs.150 /Rmts.) from front and edges. Suitable moulding (as directed by architect) will be fixed on all four sides and will be finished in polish.

. MATERIAL & WORKMANSHIP:-

Providing and fixing pinup boards. It consist 12mm soft boards of good density to be mounted over 12mm ply. The soft board will be covered with a plain fabric (appox Rs.150 /Rmts.) from front and edges. Suitable moulding (as directed by architect) will be fixed on all four sides and will be finished in polish.

. MODE OF MEASUREMENT

The rate shall be for a unit of SQM of Elevation

Item No. 30:

Item No. 31:

Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on under coateed wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth

1.0. Materials

Water shall be conform to M-1. The plastic emulsion shall conform to I.S 5411-1969 (part-I).

2.0. Workmanship

2.1. Scaffolding: The relevant specifications of item No.18.11 para 2.1 shall be followed.

2.2. Preparation of surface: The relevant specification of item No.18.44 para 2.2. Shall be followed

2.3. Preparation of Mix :

This shall be done as per manufacturer's instructions. The thinning of emulsion is to be done with water and not with turpentine. The quantity of thinner to be added shall be as per manufacturer instructions.

2.4. Application:

2.4.1. Before pouring into small containers for use, the paint shall be stirred thoroughly in item container. When applying also, the paint shall be continuously stirred in the smaller container, so that its consistency is kept uniform.

2.4.2. The paint shall be laid on evenly and smoothly by means of crossing and laying off the crossing and consist of covering the area over with paint, brushing the surface hard for the first time over and then brushing alternately in opposite direction two or three times and then finally brushing lightly in direction at right angles to the same. In this process, no brush marks shall be left after the laying off is finished. No hair marks from the brush or clogging of paint puddles in the corners of panels, angles of mouldings, etc. shall be left on the work. The full process of crossing and laying off will constitute one coat.

2.4.3. The paint shall be applied with brush or rollers. For undecorated surfaces, the surface shall be treated with minimum two coats of cement water proofing paint. The second or subsequent coat shall not be started until the proceeding coat as become sufficiently hard to resist marking by brushing being used.

2.4.4. The surface on finishing shall present a flat velvety smooth finish. It shall be even and uniform in shade without patches, brush marks, paint drops etc.

2.5. Precautions:

(a) Old brushes if they are to be used with emulsion paints, shall be completely dried of turpentine or oil paint by washing in warm soap water. Brushes shall be quickly washed in water immediately after use and kept immersed in water fusing break periods to prevent the paint from hardening on the brush.

(b) In the preparation of wall for plastic emulsion painting, no oil base petals shall be sued in filling cracks, holes etc.

(c) Splashes on floors etc. shall be cleaned out without delay as they will be difficult to remove after hardening.

(d) Washing or surfaces treated with emulsion paint shall not be done within 3 to 4 weeks of application.

2.6. Protectivepayment: The relevant specifications of item No. 18.11 shall be followed.

3.0. Mode of measurements and payment

3.1. The relevant specifications of item No.18.11 shall be followed.

3.2. The rate shall be for a unit of one sq. metre.

Item No. 32:

DIAS

Supplying & fixing of “Kebao” Steel Cement Cavity flooring system (Imported) manufactured by “Kebao Access Floor International Co. Ltd.” (Shanghai). Specification of FS800 CL Panel/Tile: Tile Size - 600mm x 600mm tile Tile thickness - 33mm Module - HDG-6008 CL (Bare Finish – Corner lock type) Point Load - 360 Kg. Uniform Dis. Load (UDL) - 1600 Kg. per M² Finish : Laminated finish with approved colour laminate. special weather coating on tile. FFH 175mm. Tile : All steel construction & cavity filled with epoxy mix cement. Top plate 0.70, Bottom plate 0.80mm of steel with gray color coated on a continuous line having 64 round embossing to the bottom plate with 100 spot welding to weld top & bottom plate. Total thickness of tile 33mm with four holes at four corner for fixing the tile with pedestal. Vertical surface to be made from ms angle section with 18mm thick comm. Ply with 1.0mm thick laminate.

Scope of work:

All material to be use as per approved brand specification. Extra frame work to be fixed if required. No extra payment to be made for the same. necessary steps to be made with ply,laminate and MS angle as per design. Including vertical surface, to be finished with ply and laminate. Rates are including transportation charge, installation charge etc. Wastage to be lift out side premises.

Workmanship

Tiles,frame structures, all are in line and lvl.even grooves, proper sturdiness maintain.

Mode of measurement & payment

The payment shall be made on Sq.mt. (LxW) of finish work. No wastage should be count for measurement/payment.

The rate shall be paid for a unit of one square meter. Length into width in plan area.

Item No. 33:

DUSTBIN (MS POWDER COATING)

Providing and fixing ms powder coated dustbin size. 200mmx300mm Complete as directed by EIC or architect.

Scope of work:

Sample to be approved from Architect/client.

Workmanship

Joints are proper welded. Even holes to be maintain.

Mode of measurement & payment

The rate shall be paid for a unit of one no.

Item No. 34 :-

PODIUM

The podium to be made out of 19mm comm. ply with a 1.0 mm thick laminate finish with the dimensions 1300mm(H) x 550(W) x 500(D)

Scope of work:

All material to be use as per approved brand. Extra frame work to be fixed if required. No extra payment to be made for the same.

Workmanship

No air bubbles found in laminate.

Mode of measurement & payment

The payment shall be made on no. of finish work. No wastage should be count for measurement/payment.

The rate shall be paid for a unit of one no.

Item No.35 :-

Providing & Fixing of Armstrong Acoustical Suspended Ceiling System with Fine Fissured (Bevelled Tegular) Edge Tiles With Armstrong Silhouette 15mm Black Treveal GRID System. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.6, Light Reflectance $\geq 85\%$, Thermal Conductivity $k = 0.052 - 0.057$ w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 16mm , suitable for Green Building application, with Recycled content of 31%. The tile shall be laid on Armstrong Silhouette profile grid system with 15mm white flanges incorporating a 6mm central reveal in black colour and with a web height of 38mm and a load carrying capacity of minimum 15.68 Kgs/M2 & minimum pull out strength of 100 Kgs. Silhouette, Main Runners & Cross Tees to have mitred ends & “birdsmouth” notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of Armstrong make.. The Tile & Grid system used together should carry a 30 year warranty.

Scope of work:

Providing and Installing all material as per company's specification. No extra charge for scaffolding if required.

Material

All material should be used as per approved manufacturer's specification.

Workmanship

It should be maintained in one line and level. Damaged tiles should be replaced. No extra payment should be claimed for the same.

Item No.36:-**WOODEN CEILING**

Providing and fixing wooden ceiling the tile should have conductivity $k=0.12/mk$, fire performance UK class 1 (BS476) in module size of 600x600x12mm with laminate/veneer layer on the face of the tile with perforation option like R3/R3B/R6/R8B/O6/O11/O12/SQ50. The tile shall be laid on Armstrong silhouette profile grid system with 15 mm white flanges incorporating a 6mm central reveal in white/black colour and with a web height of 45 mm and a load carrying capacity of minimum 15.68 kgs/m². Silhouette, main runner & cross tees to have mitred ends & birdsmouth notches to provide mitred cruciform junction. The T section has a galvanizing of 90grms per M². The tile and grid system used together should carry a 15 year warranty.

INSTALLATION : To comprise main runner spaced at 1200mm centre securely fixed to the structural soffit using Armstrong suspension system at 1200 mm max. centre. The first/Last Armstrong suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200X600mm module. Cut cross tees longer than 600mm required independent support 600X600 mm module to the form by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tee. Perimeter trim to be Armstrong wall angles of size 3000 X 19X19mm secured to walls at 450mm max. centres. **ARMSTRONG SUSPENSION SYSTEM:** Accessories manufactured and supplied by Armstrong World Industries consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanized steel of size 26X26 X25X1.2 mm with a galvanizing of thickness of 80gsm. A pre-strengthened hanger wire of dia-2.68 mm of 1.83 mm length, thickness of 80 gsm. and a tensile strength of 344-413 Mpa, along with Adjustable hook clips of 0.8 mm thick, galvanized string steel for 2.68 with a min. pull strength 110 kg. The adjustable clip also consists of a 3.5 m aquiline wire to be used with the main runner.

Scope of work:

All material to be used as per approved manufacturer's specification. Extra frame work to be fixed if required. No extra payment to be made for the same. Rates are including cut out for

light fixtures, etc. Rates are including transportation charge, installation charge etc. Wastage to be lift out side premises.

Mode of measurement & payment

The payment shall be made on Sq.mt. (LxW) of finish work. No wastage should be count for measurement/payment. The rate shall be paid for a unit of one square meter. Length into width in plan area.

Item no. 37:- ROLLUP BLINDS

Translucent Roller

Providing and fixing Translucent Roller Blind fixed on window level on wooden batten and curtain lift with cotton thin rope, design and colour as per instruction by engineer – in – Charge with necessary hardware fitting, material and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. Approved make Vista / Neon or equivalent.

Scope of work:

Contractor should provided one sample for approval befor procurement of material. Contractor should take measurement of each window on site before placement order. No extra cost to be paid for wooden batten or palmets if made.

Workmanship

Curtain shall accurate in plumb line with suitable fixing with manufacturer's specification. Easy operatable.

Mode of measurement.

Length and height include frame will be considered for measurement Area will measure in SQMT.

Item no. 40:-

Fully glass partition without door.

Providing and fixing fully glazed partition using 12mm thk toughened glass upto 2400mm height from floor lvl. Modi guard make clear toughened float glass fixed with necessary patch fittings(Godrej/Ozone/ENOX make), D brackets etc. As per the manufacturers specification or as directed by the Architect. neccesary teakwood framing to be erected above false ceiling. the teak wood frame size is 37x50mm. Only visible area to be measured for mode of payment.

Scope of work:

All material to be use as per approved brand only.Rates should be included transportation, installation charge. wood should be well seasoned.

Workmanship

All edges of glass to be beveled edge.

Mode of measurement & payment

The payment shall be made on Sq.mt. (Lxht) of finish work. No wastage should be count for measurement/payment.

The rate shall be paid for a unit of one square meter. Length into height.

Item no. 41 :-

Glass door

Providing and fixing glass door with patch fitting as shown in the drg. Door shall consist of approved make 12mm thk. toughened clear float glass with pre-fitted necessary hardwares of Enox / Ozone / Godrej make for smooth swinging action. Rate shall include necessary approved locking systems, S.S. brush finish Handle pair, floor springs (Heavy duty or equivalent), gaskets & miscellaneous hardware items. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant.

Scope of work:

All material to be use as per approved brand only.Rates should be included transportation, installation charge. Door having a approved make hardware and fixtures.Lock,handle, floor spring etc

Workmanship

Door shall accurate in plumb line. All edges are beveled. Proper locking system. Smooth swing system.

Mode of measurement & payment

The payment shall be made on Sq.mt. (Lxht) of finish work. The rate shall be paid for a unit of one square meter. Length into height.(clear opening)

Item no. 42 :-

PARTLY SOLID, PARTLY 5MM THICK CLEAR FLOAT GLASS FULL HT. PARTITION

Providing and fixing 62.5mm to 75mm th. full height double skin partition. It should be made from 56mmx30mm x1mm thick alluminium frame(C/C 600x600MM)covered with both side **9mm thick marin ply finished with 1.0mm laminate and partly 5mm thick clear glass to be provided with ghana teak frame.finished with malamine polished.** without any air gap and grooving as per design. Neccesary wooden framing to be erected above false ceiling. Open edges to be finished with laminate.No extra cost to be paid for the same. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with openable stud from

partition Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. Only visible area to be measured for mode of payment. Entire work to be completed as per the instructions of EIC / Architects.

Scope of Work

The item consists of providing and fixing full ht. Partition complete on site and as directed by EIC/Architect. Allu.framing should be installed up to rcc beam/slab.Wooden patti to be provided for fill the uneven gap finished with paint.

Workmanship

Partition shall accurate in plumb line with suitable fixing on floor,wall & RCC slab/beam.

.Even groove should be maintain throughout. groove to be finished in paint/polished.

Mode of measurement.

The payment shall be made on SQMT. (length x visible height) of finished work. Rate shall be included the cost of materials,labours and transportation. To complete the items as per instruction of Engineer in-charge.The rate shall be paid for a unit of one SQMT.

Item No : 43

Modular Parttion, 80 mm th., 1210 mm high. Made of Aluminum alloy frame, Soft board / writing board at upper level & 12 mm th. PLB tiles below. Raceways are provided for concealed cabling of power & data, cut-outs for switch sockets as per requirement.

Scope of Work

The item consists of providing and fixing modular low ht. and middle Partition complete on site. All material to be use as per approved make manufacturer specification. and as directed by EIC/Architect. **Contractor should prepared make up on site for approval before final execution.**

Workmanship

Partition shall accurate in plumb line with suitable fixing on floor,wall.

.Even groove should be maintain throughout.

Mode of measurement.

The payment shall be made on SQMT. (length x hight) of finished work.Rate shall be included the cost of materials,labours and transportation. To complete the items as per instruction of Engineer in-charge.

The rate shall be paid for a unit of one SQMT.

Item no. 44 :-

brickwork using common burnt clay building bricks having crushing strength not less than 35 kg per sqcm. In superstructure above plinth level upto floor two level in cement mortar 1:5 (1-cement;5-fine sand) B conventional.

1.0 Materials & Workmanship : The relevant specifications of item No. 27 shall be followed except that brick masonry work shall be carried out with conventional brick.

2.0 Mode of measurements and payment :

2.1 The relevant specifications of item No.6.19 (A) shall be followed.

2.2 The rate shall be for a unit of one cubic meter.

1.0 Materials & Workmanship : The relevant specifications of item masonry work to be carried out shall be followed except that this work is for additional lift of one floor above floor two level.

2.0 Mode of measurements and payment :

2.3 payment shall be for a unit of one cubic meter.

Item no. 45

Half brick masonry in common burnt clay building brick having crushing strength not less than 35 kg/cm² in cement mortar 1:4(1-cement :4- coarse sand) in foundation and plinth .B. conventional (upto 10 ton) complete as directed by architect

Materials & Workmanship :

The relevant specifications of item No. 6.30 (1)-A shall be followed except that the half brick work shall be carried out in cement mortar 1:4 (1 Cement : 4 coarse sand) in foundation and plinth using conventional bricks.

2.0 Mode of measurements and payment :

2.1 The relevant specifications of item No. 6.30(I)-A shall be followed.

2.2 The rate shall be for a unit of one sq. meter.

(b) Extra for half brick masonry work in superstructure above floor two level(B) conventional (upto 10 ton)

1.0 Materials & Workmanship :

The relevant specifications of item No. 6.30(A) & 6.30 (B) shall be followed except that the work is for additional lift of each floor above floor two level using conventional bricks.

2.0 Mode of measurements and payment :

2.1 The rate shall be for a unit of one Sq. meter per floor.

2.2 The rate shall be for a unit of one Sq. meter.

Item no.46

providing and fixing 35 mm thick shutters for doors, window and clerestory windows including indian teak wood frames 10 cm x 7 cm. size including anodized alluminium fixtures and fastenings including primer coat of approved quality and two coats of oil painting etc , complete. (ii) fully panelled

1.0 Materials :

1.0 Wood for shutter shall conform to M-29. (2) Glass shall conform to M-28. (3)

Anodised aluminium but hinges shall conform to M-43.

1.0 Workmanship : The item covers the requirement of preparation of shutters for

2.0 doors, windows, clerestory windows, their supply and fixing.

2.2 Shutters :

2.2.1 panelled shutters shall be constructed in the form of timber frame work of styles and rails with panel inserted of type as specified in the detailed drawings. Panel shall be fixed by providing grooves in the style and rails. The styles and rails shall be joined to each other by mortise and tenon joints at right angles.

2.2.2 All members of the shutters shall be straight without any warp or bow and shall have smooth, well planed faces at right

2.2.3 B. W. S. 9 angles to each other.

2.2.4 The size of styles and trails shall be as per drawing or as directed. Styles and rails of

shutters shall be made of one piece only.

2.3 Timber paneling :

2.3.1 Thickness of the panel shall be as specified in the item as shown in the drawing or as directed. If the panel is made from more than one piece the pieces shall be finished as shown in the detailed drawings and shall be joined with continuous groove with specified size. The end pieces of the panel of the panel and the top and bottom of the panel shall be provided with continuous tongue to frame into groove of the frame shutter. An air space of 1.5 mm. shall be left in the groove of frame shutter while fixing the panels in it.

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2.3.2 The faces of the panel as well as various pieces of the panel shall be closely fitted to the sizes of the grooves.

2.3.3 Finishings of the corners of raised panel edges shall be done as shown in drawings or as directed.

2.5 Fixtures & Fastenings :

2.5.1 The rate shall include anodized aluminium but hinges including fixing with iron screws. The size and number of hinges shall be as per table given in annexure – 1.

3.0 Mode of measurements & payment :

3.1 The rate for shutter includes cost of providing block and clear for keeping the shutter in open position as directed.

3.2 The dimensions of the shutter shall be measured clear size of the shutter in close position between the grooves of the frame.

3.3 The rate shall be for a unit of one Sq. Meter.

Item No.47

Providing 15mm thick cement plaster in single coat on brick/ concrete walls or interior plastering for clear height from floor to floor level of max 4.65m and work should be carried out for any floor level at any height finished even and smooth in 1:6 (1 cement: 6 fine sand)

(ii) Cement Mortar 1:6 (1 cement :6 Sand)

Providing 15mm thick cement plaster in single coat on brick/ concrete walls or interior plastering for clear height from floor to floor level of max 4.65m and work should be carried out for any floor level at any height finished even and smooth in 1:6 (1 cement: 6 fine sand)

1.0. Materials & Workmanship

1.1. the relevant specifications of item No.57) shall be followed except that the thickness of plastering shall be 20 mm. in C.M. 1:6

2.0. Mode of measurements & payment

2.1. The relevant specifications of item No.57 shall be followed.

2.2. The rate shall be for a unit of one sq. metre.

Item No.48

Made using high grade cold rolled steel sheets, top & bottom plates are combined with 100 spot welds and the resulting cavity is filled with foamed cement for solid load bearing capacity. Epoxy based powder coating is done on all sides of the tile to ensure long life. The top surface is finished with high-pressure antistatic laminate or PVC. All the four edges are covered with black conductive edge band for good conductivity. The finished surface of the tile is 'anti-skid'. These tiles are placed on a steel understructure formed of pedestals & stringers (rigid grid type) at the required height. The entire system is fire retardant and non-combustible and is available in different grades suitable for low and high weight requirements. The panels can be interchanged anywhere and in any direction.

Mode of measurements & payment

The rate shall be in sqm