

N.O.W. - FURNISHING OF STATE BANK OF INDIA						
N AREA CHANDIGAH BRANCH						
PRICE BID FOR THE INTERIOR WORKS						
S.No.	DSR REF.	Item	Quantity	Units	Rate	Amount
		PANELING/PARTITION				
		Note: For the Paneling, Full height partitions and low height partitions the work measurement for costing shall be only of the plain visible surface, no extra cost for extrusions or extra frame work required as per drawing will be made. The work done above ceiling, below floor finish level or not directly visible shall not be measured.				
1		<u>WALL PANELING</u>				
		Providing and fixing panelling on column/wall. Framing shall consist of Heavy duty Aluminium Box Sections 50mmx25 mm with maximum spacing of @ 600mm c/c Both ways horizontally and vertically on the column/wall. This framing would be covered by 8mm thk. ISI Marked Ply finished in approved 1.0mm Th. Laminate of desired shade, design and gloss. Wooden molding, lipping etc. shall be provided wherever required as per drawing and deco painted in desired shade. The paneling shall have skirting and intermediate bands finished with laminate of desired shade, design and gloss. The work shall also include the cost of making cut-outs for the electrical switches, lights, switch boxes etc. and provision for laying conduit for electrical/telephone/Data cabling etc.	91.15	SQ.M		
		The work shall include making provisions for the shutters for the existing niches with 18mm thick ply finished with 1mm thick mica of desired shade/texture/finish with modular hinges, lock, magnet stopper and handle complete including painting/polishing the edges as per the direction of the engineer-in-charge.				
		MAKES:				
		ALUMINIUM: JINDAL, HINDALCO, NALCO OR EQUIVALENT				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
2		<u>FULL HEIGHT PARTITIONS:</u>				
		Providing and fixing wooden full height partition with following specifications:	5.00	SQ.M		
		(a) Supporting system comprising of aluminium 50mm x 50mm square sections @ max. 600mm c/c both horizontally and vertically. The frame shall be fixed rigidly at floor level and ceiling level wherever possible. The rate should also include necessary strengthening with additional members at doors and other openings.				
		(b) The partition shall have 8mm Plywood fixed on both sides with screws for the entire height of the partition and finished with approved 1.0mm Th. Laminate of desired shade, design and gloss on both sides. Wooden molding, lipping etc. as directed by Bank / architect shall be provided wherever required. The partition shall have skirting and intermediate bands finished with metallic laminate of desired shade, design and gloss.				
		(c) The full height partition shall be WITH OR WITHOUT 8mm clear float glass with etching fixed as per drawing with 75mm x 12mm Teak wood jamb/chaowkhat around glass opening and 12mm x 12mm teak wood beading for fixing of glass on both sides. As per the direction of Engineer-in-charge and design.				

Akshay Dutta

		(d) The work to include providing and fixing of partly glazed wooden door shutters using 35mm readymade ISI flush door shutter with 1.0mm thick laminate of desired shade/textures and gloss as per drawing with teak wood frame of 75mm x 40mm. The door shall have 6mm thick teak wood lipping all around the edges. The door shall have vision panels with 8mm thick clear float glass with etching fixed with double 14mmx25mm thick teak wood moulding as per design. The exposed surface of wood shall be deco painted in desired shade. The door shall be complete in all respect with hardware handles, godrej 6-lever lock/night latch lock, door stoppers, 8" tower bolts, hinges etc all in brass.				
		MAKES:				
		ALUMINIUM: JINDAL, HINDALCO, NALCO OR EQUIVALENT				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		GLASS: SAIN GOBAIN/MODI GLASS/ASAHI FLOAT GLASS				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
3		<u>LOW HEIGHT PARTITIONS:</u>				
		Providing and fixing wooden low height partition with following specifications:	6.90	SQ.M		
		(a) Supporting system comprising of aluminium 50mm x 50mm square sections @ max. 600mm c/c both horizontally and vertically. The frame shall be fixed rigidly at floor level and ceiling level wherever possible. The rate should also include necessary strengthening with additional members at doors and other openings.				
		(b) The partition shall have 8mm Plywood fixed on both sides with screws for the entire height of the partition and finished with approved 1.0mm Th. Laminate of desired shade, design and gloss on both sides. Wooden molding, lipping etc. as directed by Bank / architect shall be provided wherever required. The partition shall have skirting and intermediate bands finished with metallic laminate of desired shade, design and gloss.				
		(c) The low height partition shall have 12 mm thick glass with etching as per design fixed with stainless steel heavy duty D-Profile 75mm in width of Ebco/godrej/Dorma/Ozone make at bottom and sides with top surface and other side free. All the edges of the 12mm glass shall be duly grinded/bevelled and polished.				
		e)The work to include providing and fixing of partly glazed wooden flap door shutters using 35mm readymade ISI flush door shutter with 1.0mm thick laminate of desired shade/textures and gloss as per drawing with teak wood frame of 75mm x 40mm. The door shall have 6mm thick teak wood lipping all around the edges. The door shall have vision panels with 8mm thick clear float glass with etching fixed with double 14mmx25mm thick teak wood moulding as per design. The exposed surface of wood shall be deco painted in desired shade. The door shall be complete in all respect with hardware handles, door stoppers, 8" tower bolts, hinges etc all in brass except for the door lock which shall be extra.				

Akshay Dutta

		Note: The measurement for the costing of the ceiling will be done for the plain surface and no extra cost shall be paid for the steps or cope lighting. No extra cost shall be made for cutting the board for fixing of lights/airconditioner diffusers or return air grills/provision for conduits for cabling/ adjustment of the suspended grid as per the layout of the air-conditioners/ air-conditioning ducts or other fittings.				
		MAKES:				
		ALUMINIUM: JINDAL, HINDALCO, NALCO OR EQUIVALENT				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		GLASS: SAIN GOBAIN/MODI GLASS/ASAHI FLOAT GLASS				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
4		GYPSUM BOARD FALSE CEILING WITH STEPS:				
		Providing and fixing suspended false ceiling including steps and provision of cope lighting as per design with 12.5mm tapered edge Gypboard / 12mm thick Elephant Gypsum Board to the grid comprising of cold rolled galvanized metal section to the required line and level. The grid consisting of a perimeter channel fixed round the perimeter. The intermediate channel at 1200mm c/c in the one direction and the ceiling section at 450mm c/c in the other direction to be connected by a connecting clip. The grid to be suspended with an adjustable strap hanger.	58.81	SQ.M		
		The grid to be suspended with an adjustable strap hanger at 1200mm c/c on both ways from the structural soffit using a soffit cleat and expandable bolts/fasteners Nut and bolts to be used to connect strap hangers to soffit cleats and for joining ends of channel sections together. The gypsum board layers to be screwed to the M/F ceiling sections with gypboard drywall screws. Jointing and screw spotting are then carried out as per manufacturer's standard recommendations. Perimeter Channels to be used around the cut outs for light fittings. A/C ducting etc. The work should be complete as per instructions of Architect or Engineer in charge including 2-3 coats of oil bound distemper , over a coat of primer.				
		MAKES:				
		GYPSUM BOARD: SAINT GOBAIN/USG BORAL/GYPSUM INDIA				
		CEILING SECTIONS: SAINT GOBAIN/USG BORAL/GYPSUM INDIA				
5		GRID FALSE CEILING:				
		Silhouette Grid False Ceiling:- Providing and fixing in true horizontal level false ceiling grid system of Armstrong World Industries. The suspension system shall be the Armstrong Trulok Silhouette revealed profile grid system with 15mm wide flanges incorporating a 3mm or 6mm central recess color, black or white revealed. Silhouette main runners and cross tees to have mitered ends with "birds mouth " notches to provide mitered cruciform junctions.	4.46	SQ.M		

Akshay Dutta

		Main runners to be spaced at 120mm c/c fixed by using 2mm pre-straightened GI wire. Main tee, rotary stitched at every 1200mm c/c maximum and 1200mm cross tee at every 600mm c/c maximum and 600mm cross tee at every 1200mm c/c maximum and wall angle all-round the wall to form grid size of 600mm x 600mm and suspending the grid using 2mm pre-straightened GI wire and 6mm nylon rawl plug at every 1200mm intervals at the main tee and laying of premier mineral fiber tiles manufactured by Armstrong World Industries of size 600mm x 600mm x 15mm over the formed grid etc., complete as per manufacturer's specifications.				
		MAKES:				
		GRID CEILING: ARMSTRONG/THAKKAR INDIA/UNIDUS INDIA				
		CEILING SECTIONS: ARMSTRONG/THAKKAR INDIA/UNIDUS INDIA				
6		<u>SWO COUNTERS: (AS PER NEW DESIGN AND SPECIFICATIONS)</u>				
		(a) Providing and fixing at site SWO counters as per the new design and drawings. SWO counters to be made of 18mm thick commercial ply with 1mm thick laminate of desired shade, design and gloss on outer visible surfaces; single color on horizontal surface & two colors on vertical surfaces. The counter shall have a curved front made with flexible 18mm ply and provision of kobe lighting as per the drawings. Provision for 3" dia. Round /3" square stainless steel of grade 304 cable manager for computer / electrical cables at appropriate place, will be made in the top surface of the counter. Teak wood lipping will be provided on all the remaining edges of the counter, including bottom touching the floor and the drawers. The counter shall have wooden keyboard rest of size 600mm x 270mm fixed on sliding telescopic channels of ebco/hettich/godrej. The work shall also include provision of foot rest made with wooden member of section 3" x 5" along the leg space.	2.59	M		
		(b) The counters shall have three self lockable drawers running on side mounting drawer slides (channels) of EBCO/godrej/Hettich make, made of 18mm thick ply with 1mm thick laminate of desired shade, design and gloss on front face & 3 nos. self locking drawer locks be provided on one side of the counter as per layout. The sides of the drawers shall be made of 12mm thick plywood, bottom of 6mm thick plywood & front of 18mm thick ply. All other surfaces i.e. inside / legsapce of table, inside of drawer/Cupboard shall be provided with 0.8mm thick laminate of desired shade, design and gloss, and wood lipping / beading shall be PU polished with matching pigment/deco painted in desired colour. The drawers shall have partitions for keeping currency notes as per drawing, complete in all respects including the required stainless steel hardware like handles, hinges etc. The counter shall have a CPU ledge made of 18mm thick commercial ply board on one side, complete as per drawing.				
		Note: The contractor to get the sample of the counter approved from the Architect before covering it with laminate without any extra cost.				
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				

Akshay Dutta

		HARDWARE: OZONE/DORMA/GODREJ				
7		<u>OFFICER'S TABLES WITHOUT SIDE CREDENZA</u>				
		(a) Providing and fixing at site Officer's table made of 18mm th. commercial ply with 1mm thick laminate of desired shade, design and gloss on outer visible surfaces; single color on horizontal surface & two color on vertical surfaces. . The front of the table top shall be projected and curved as per drawing. Provision for 3" dia. Round/3" square stainless steel of grade 304 cable manager for computer / electrical cables at appropriate place, will be made in the top surface of the table. Esteem Biege wood lipping will be provided on all the edges of the table, including bottom touching the floor and the drawers.				
		The counter shall have a wooden keyboard rest of size 600mm x 270mm made with 18mm ply fixed with sliding telescopic channels of ebco/godrej/hettich make. The work shall also include provision of foot rest made with wooden member of section 3" x 5" along the leg space.				
		(b) There shall be provision of one storage cabinet 1'3" wide. The frame shall be made with 18mm thick ply. The cabinet shall have one lockable drawer running on side mounting drawer slides (channels) of EBCO make & one cupboard with shutter beneath the drawer, made of 18mm thick commercial ply board with 1mm thick laminate of desired shade, design and gloss on front face, handle / knob and magnetic catcher shall be provided on one side of the table as per layout. The sides of the drawer shall be made of 12mm thick plywood, bottom of 6mm thick plywood & front of 18mm thick ply board.				
		All other surfaces i.e. inside / legsapce of table, inside of drawer / cupboard shall be provided with 0.8mm thick laminate of desired shade/design and gloss, and wood lipping / beading shall be PU polished with matching pigment/deco painted in desired colour. The table shall have a CPU ledge made of 18mm thick ply on one side, complete as per drawing.				
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
a)		5'-0" x 2'-6" x 3'-6"	1.00	no.		
8		<u>SIDE CREDENZA 1.07 X 0.38 X 0.76:</u>				
		Side credenza made of 18mm thick commercial ply frame and 6mm thick plywood on back side & 1mm thick laminate on top horizontal surface & one vertical visible side only, with teak wood lipping on all edges including bottom touching floor. The credenza will have drawer compartment 14" wide outer to outer, containing three drawers vertically running on side mounting drawer slides(channels) of EBCO/godrej/hettich make.The sides of the drawer shall be made of 12mm thick plywood, bottom of 6mm thick plywood & front of 18mm thick ply. The remaining part of the credenza will have cupboard with shutters of 18mm thick ply and finished with 1mm thick mica of approved shade/texture/gloss/design and one shelf. All the internal surfaces shall be finished with 0.8mm thick mica of desired shade, design, gloss and the exposed wood shall be deco painted/malamine polished in desired shade.	1.00	no.		
		MAKES:				

Akshay Dutta

		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
9		<u>LOW HEIGHT STORAGE CABINETS/BACK STORAGE: (2'6" HIGH)</u>				
		(a) Providing and fixing storage cabinets of size 2'6" (High) x 16" (Deep) along the walls/partitions, as per interior drawings, using 18mm ply for carcass, shutters, vertical and horizontal partitions, 6mm ply for the back and 1mm High Gloss laminate of approved shade on vertical and horizontal visible surfaces. The shutters shall be overlapped on the carcass and shall be provided with EBCO hinges. The width of the shutter shall be between 12" to 15" as per the site conditions. All the exposed edges of the board shall be provided with wooden lipping 18mm x 3mm, duly PU polished/deco painted in desired shade. The inner surface shall be provided with 0.8mm thick laminate of desired shade, design and gloss. The cabinet shall be complete with handles, knobs, locks and magnet catchers etc. to the satisfaction of the Architect/Engineer.	5.11	RMT		
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
10		<u>12MM TOUGHENED GLASS FOR FRONT AND SIDE OF COUNTERS :</u>	2.42	SQ.M		
		Providing and fixing 12 mm thick, clear plain toughened glass of approved pattern fixed in vertical position at counter front and as curved glass extension of low height partition as per drawing, fixed on wooden partitions with superior quality stainless steel patch fittings of ebco/godrej/ozone. An opening as per the drawing at the bottom for transaction shall be provided in case of glass in front of the transaction counter. All the edges of the glass shall be grinded/bevelled and polished. The glass shall also be etched as per the design. Glass area with maximum height shall be measured for the purpose of payment. The work shall be carried out as per drawings.				
		MAKES:				
		GLASS: SAIN GOBAIN/MODI GLASS/ASAHI FLOAT GLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
11		<u>12MM THICK TOUGHENED GLASS DOORS WITH ETCHING:</u>				

Akshay Dutta

		Providing and fixing in position 12mm clear float toughened Glass for naked glass door. The work to include making necessary template for all the glasses and then cutting the clear float glass to correct size, making all the necessary holes, cuts etc., and then toughening the same. The cost to include all hardware required viz., Ozone/ebco/godrej or approved equivalent make floor spring with its accessories, top pivot, center lock, 450mm glass door handles etc., along with etching with sand blasting as per design and drawing. The maximum size of each glass shall be as per the drawing or the direction of the Engineer-in-charge. The rate is for a finished item of work etc., complete as directed.	5.20	SQ.M		
		MAKES:				
		GLASS: SAIN GOBAIN/MODI GLASS/ASAHI FLOAT GLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
12		<u>12MM THICK TOUGHENED GLASS PARTITIONS WITH ETCHING:</u>				
		Providing and fixing in position 12mm clear float toughened Glass partition with patch fittings for the full height glass partitions as per the direction of the engineer-in-charge. The work to include making necessary template for all the glasses and then cutting the clear float glass to correct size, making all the necessary holes, cuts etc., then toughen the same.	7.85	SQ.M		
		The cost to include all hardware (PATCH FITTINGS etc) required of Ozone/EBCO/GODREJ or approved equivalent make viz., single corner patch, top and bottom corner patch etc. or as per the direction of the engineer-in-charge, along with etching with sand blasting as per design and drawing. The maximum size of each glass shall be 1200mm to 2000mm x 2400mm to 2700mm as per the site requirement. The rate is for a finished item of work etc., complete as directed.				
		The cost to include the cost of bevelling and smoothening of the exposed edges of the glass.				
		MAKES:				
		GLASS: SAIN GOBAIN/MODI GLASS/ASAHI FLOAT GLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
13		<u>HDHMR BEVELLED EDGES PANELED PANELING WITH GROVES</u>				
		Providing and fixing 19mm HDHMR board bevelled edge panelled paneling with groves as per the desired design and drawing. The paneling shall be deco painted in desired shade and design. The work shall further include providing and fixing metallica 1mm thick mica in desired shade as highlighter. The work shall be complete including the required sundries and adhesive for fixing the paneling over the wall. furthermore, the work shall also include providing and fixing profile lights in the paneling as per the instruction of the engineer-in-charge.	3.35	SQ.M		
		MAKES:				
		HDHMR BOARD: CENTURY/GREEN/ACTION TESA OR EQUIVALENT				
14		<u>WOODEN BOXING FOR THE ELECTRICAL PANEL</u>				

Akshay Datta

		Providing and fixing at site wooden boxing for the electrical panel as per the design and drawing. The carcass shall be made of 18mm commercial ply with 1mm thick LAMINATE of desired shade, design and gloss on the outer surface. The carcass shall have intermediate band and skirting of 1mm thick metallic Laminate of desired shade, design and gloss. The shutter shall be mounted on the SS Piano hinges and provided with magnetic catcher, lock and tower bolts as required etc. All the visible edges of board shall be provided with 4mm thick teak wood lipping, duly DECO PAINTED. All interior surfaces and back of shutters shall be provided with 0.8mm thick mica. the cabinet shall be complete with all necessary hardwares like locks, handles, catchers, towerbolts etc.	5.44	SQ.M		
		The cost shall include provision and fitting of the stainless steel Jali of grade 304A for the ventilation of the panel. The cost shall include the cost of cutting of the shutter and fitting with necessary screws as per the drawing.				
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
15		WRITING DESK AND THE VOUCHER STAND				
		Providing and Fixing Writing desk and voucher stand 1.2m wide, 1.05m high and 30cm thick made with the frame of 18mm thick ply. The back shall be made with 6mm thick ply. The desk shall have four open portions for voucher stand 200mm high with top of 12mm thick toughened glass to be used as wiring desk. The lower portion shall have two independent cabins 75cm high provided with 18mm thick shutter with slits for sliding the voucher or the cheques as per the direction of the engineer-in-charge. All the exposed surfaces shall be finished with 1mm thick mica of approved shade/texture/gloss as per the direction of the engineer-in-charge. All the exposed edges shall be provided with 4mm thick lipping. The internal surfaces shall be provided with 0.8mm Mica. The work shall also include all the sundries and material required to fix the same on the wall as per the direction of the Engineer-in-charge.	1.00	no.		
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				
		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
16		FALSE CEILING FINISHED WITH LAMINATE				
		Same as Gypsum false ceiling but instead gypsum boards providing, making, and fixing 12 mm thick. BWR Grade ply, and additional 6-8mm ply in layers with molding of approved design shall be fixed as per drawing or as directed by Architect, with decorative molding patty. The plywood should be finished with 1 mm thick. Laminate of approved colour(wooden finish) and quality.	10.76	SQ.M		
		MAKES:				
		PLY: CENTURY/GREEN/DURO OR EQUIVALENT				
		MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT				

Akshay Datta

		ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT				
		LIPPING/MOULDING: CP TEAK FIRST CLASS				
		HARDWARE: OZONE/DORMA/GODREJ				
17		HYDRAULIC DOOR CLOSER:				
		Providing and fixing silver color (or matching with color scheme as per site) hydraulic door closer Hyper / Everrite ISI marked make, to doors complete in all respects.	2.00	NOS		
		MAKES:				
		HARDWARE: OZONE/DORMA/GODREJ				
18		WHITE ACRYLIC STONE				
		Providing and fixing (12mm thick) white acrylic stone (non abundant, non - porous solid surface category) as per drawings/ design provided by the Architect complete in all respect including buffing and wastage(Make : DuPont, LG,Samsung)	3.95	SQ.M		
19		ACP SHEETS WALL PANELING				
		Providing and fixing Aluminium Composite Panel (Indo Bond/Alistone) wall cladding with the 3mm thick PVDF coated aluminium composite panel (ACP) (0.25 mm coil thick) with frame of aluminium channels (25 x 50 x 1.6mm), cleat angle (8 x 18 x 2mm) necessary hardware, backup material and weather sealant to make the joints leak proof. The spacing for the channel along the length and spacing of cleat on the perpendicular shall not be more than 600mm.	27.09	SQM		
20		FIRE PROOF DOOR FRAME				
		Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Architect (including Dash fastener).	5.11	RM		
21		FIRE PROOF SHUTTER				
		Providing and fixing 50 mm thick glazed fire resistant door shutters conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Architect, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Architect-in- charge (panneling to be paid for separately)	1.79	SQ.M		
22		FIRE PROOF GLASS PANEL				
		Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/ m2), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Architect-in-charge.	0.09	SQ.M		
		With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance				

Akshay Dutta

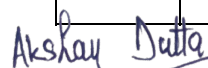
23		<u>TEXTURE PAINT:- (Spectrum Finish)</u>				
		Providing & applying spectrum surface texture finish of approved shade & colour on walls as per requirement & manufacturers recommendations.	14.43	SQ.M		
24		<u>BACKLIT 12MM THICK MDF JALI ON COLUMNS</u>				
		Providing and fixing on the partitions/paneling 12mm thick MDF jali as per design duly deco painted in desired colour sandwiched between two transparent acrylic sheets each 3mm thick fixed with stainless steel studs and screws complete.	12.64	SQ.M		
25		<u>WALL PANELING WITH HDHMR FLUTED PAENLS OR BEVELLED EDGE PANELS</u>				
		Providing and fixing panelling on column/wall. Framing shall consist of Heavy duty Aluminium Box Sections 50mmx25 mm with maximum spacing of @ 600mm c/c Both ways horizontally and vertically on the column/wall. This framing would be covered by 19mm thk. HDHMR fluted panels or Bevelled edge panels as per the direction of the engineer-in-charge. HDHMR Board, Wooden molding, lipping etc. shall be provided wherever required as per drawing and deco painted in desired shade. The work shall also include the cost of making cut-outs for the electrical switches, lights, switch boxes etc. and provision for laying conduit for electrical/telephone/Data cabling etc.	3.25	SQ.M		
		The work shall include making provisions for the shutters for the existing niches with 18mm thick ply finished with 1mm thick mica of desired shade/texture/finish with modular hinges, lock, magnet stopper and handle complete including painting/polishing the edges as per the direction of the engineer-in-charge.				
		<u>MAKES:</u>				
		<u>ALUMINIUM: JINDAL, HINDALCO, NALCO OR EQUIVALENT</u>				
		<u>PLY: CENTURY/GREEN/DURO OR EQUIVALENT</u>				
		<u>MICA: GREEN/SUNMICA/MARINO OR EQUIVALENT</u>				
		<u>ADHESIVE: FEVICOL SH/ VAMICOL/JIVANJOR OR EQUIVALENT</u>				
26	9.48	Providing and fixing M.S. grills/grill gate/shutter made of required pattern in frames of windows/openings etc. with M.S. flats, square or round bars, MS Sheets etc. complete with locking arrangement as per the direction of the engineer-in-charge including enamel finished coats over approved steel primer complete.	66.36	SQ.M		
	1	The Grills for the windows shall have 12mm square bars placed @ 75mm c/c bothways and fixed to MS Flat of 50mm x 4mm frame.				
	2a	Rolling shutter can be hand operated or gear operated. Hand operated shutters are of push and pull type. Gear operated shutters are provided with reduction gear operated by mechanical device with chain, crank, shaft and handle. The shutter consist of 80 mm wide MS laths 1.25 mm thick or gauge as specified of mild steel sheet machine rolled. Laths are interlocked together throughout its entire length and jointed together at the end with end locks. These are mounted on specially designed pipe shaft.				
	b	Cold Rolled Steel Strips used for rolling shutter lath sections shall conform to temper No. 5, Dead soft quality of IS:4030.				

Akshay Dutta

	c	GI Sheets and Plates used for manufacturing the guide channels, brackets and lock plate should be of hot rolled steel of thickness not less than 18 gauge conforming to IS:5986. These shall be free from surface defects and the edges shall be cleanly sheared. All components of rolling shutter to be hot dip galvanised with a zinc coating containing not less than 97.5% pure zinc. The minimum weight of zinc coating to be 230 g/sq.m.. The coating shall be free from flaking/peeling.				
	d	GI Pipes used for the suspension shaft of the roller should be heavy duty pipe suitable for mechanical purposes and shall conform to IS:1161.				
	e	Cast Iron Castings used for roller pulley wheels, U-clamps shall conform to Grade 15 of IS:210. These should be free of blow holes, surface defects such as cracks, burrs etc.				
	d	The springs used in the roller for counter balancing the rolling shutter should be made either from high tensile spring steel wire or flat spring steel strip. The spring steel wire used or helical spring should conform to Grade 2 of IS:4454. Flat spring steel strip used for spiral spring shall be from 0.8 to 1.0 percent carbon steel strip especially hardened and tempered. Both the side guides and bottom rails are jointless and of single piece of pressed steel of minimum 16 gauge thickness. The top cover of shaft, spring etc. should be of the same materials as that of lath.Hood, brackets etc. are required to cover the shaft etc. The reduction gear arrangement operated by the mechanical device should be of the best quality and easy in operation.				
	3a	The collapsible Grill gate shall be as per IS : 10521- 1983				
	1	Vertical Channels - These shall be hot rolled medium channels of at least 18 x 9 x 3 mm and shall be of weldable quality mild steel conforming				
	2	Crossings or Lacings - These shall be flats of mild steel of at least 18 X 5 mm				
	3	Top and Bottom Runner - Tees or 'E's used for bottom runner shall have minimum web of 40 X 12 mm and flange of 40 x 6 mm, and the flats used for top runner shall be of minimum size 40 x 12 mm.				
	4	Roller Wheels - These shall be of grey iron castings conforming to grade FG 150				
	5	Spacer or Sockets - These shall be of cast aluminium				
	6	Rivets - These shall not be less than 6 mm diameter, snap headed				
		THE MS SECTIONS SHALL BE ENAMEL PAINTED WITH PRIMER COAT AND NO EXTRA COST SHALL BE PAID FOR THE SAME.				
27	NS	<u>Plastic Emulsion paint</u>				
		Providing and applying Plastic Emulsion paint three coats to give an even shade after preparation of surface for painting by scrapping etc. & filling including applying 2 coat of P.O.P to give a smooth surface, complete in all respects (Colour to approval) applicable to old or new.	100.00	SQ.M		
		MAKES:				
		PAINTS : ASIAN/NEROLAC/DULUX/BERGER				
28	NS	<u>External Emulsion paint</u>				
		Providing and applying External Emulsion paint three coats to give an even shade after preparation of surface for painting by scrapping etc. & filling including one primer coat, complete in all respects (Colour to approval) applicable to old or new.	120.00	SQ.M		

Akshay Dutta

		THE WORK SHALL ALSO INCLUDE PROVIDING AND APPLYING TWO COATS OF CEMENT BASED PUTTY AND REMOVAL OF THE EXISTING PAINT WITH SAND PAPER.				
		MAKES:				
		PAINTS : ASIAN/NEROLAC/DULUX/BERGER				
29	NS	Providing and fixing Black Granite for the counters/outer verandahs /floorintg/skirting etc including the cost of providing single moulding and polishing the same. The cost shall also include the cost of making the sub-base and fixing the granite with neat cement slurry and filling the joints with grout of desired shade as per the direction of the Engineer-in-charge.	9.29	SQ.M		
30		VITRIFIED TILE FLOORING 600MM X 1200MM				
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm with 3mm thick groves all around including grouting the joints with epoxy of matching pigments etc., complete. (Italian Marble Shade Digital Tiles from Johnson and Johnson, Kajaria, Somany etc)	83.64	SQM		
	11.41.2	Size 600mm x 1200mm				
		MAKES:				
		VITRIFIED TILES: KAJARIA, JOHNSON AND JOHNSON, ORIENT AND EQUIVALENT.				
		CEMENT: ULTRATECH/ACC/AMBUJA				
31		ACP SHEETS WALL PANELING				
		Providing and fixing Aluminium Composite Panel wall cladding with the 3mm thick PVDF coated aluminium composite panel (ACP) (0.25 mm coil thick) with frame of aluminium channels (25 x 50 x 1.6mm), cleat angle (8 x 18 x 2mm) necessary hardware, backup material and weather sealant to make the joints leak proof. The spacing for the channel along the length and spacing of cleat on the perpendicular shall not be more than 600mm.	51.39	SQM		
		MAKES:(Indo Bond/Alistone/Eurobond/Aludecor)				
		Total Value of Works				
		GST AS APPLICABLE SHALL BE EXTRA				


DUTTA AND DUTTA ASSOCIATES
 Architects Landscapers & Interior Designers
 5287, Block-F, Aerocity
 Mohali, Punjab