

Item	Description	Quantity	Unit	Rate	HK \$
	<p style="text-align: center;"><u>BILL NO. 7</u></p> <p style="text-align: center;"><u>SUPERSTRUCTURE</u></p> <p style="text-align: center;"><u>7.1 - DEMOLITION AND ALTERATION</u></p> <p><u>SPECIAL PREAMBLES</u></p> <p><u>Rates to include</u></p> <p>1. In addition to the relevant preambles set out in Bill No.2 - Preambles the following apply specifically to this project.</p> <p>2. Before any demolition or alternation work commences, the Contractor shall ensure that existing building services including plumbing and drainage to the areas where demolition and alteration works are being carried out are properly disconnected. The Contractor shall be responsible for any necessary temporary provisions to ensure that services to the remainder of the building are unaffected by the demolition and alteration works.</p> <p>3. The Tenderer is to study the Specification and Drawings carefully and to visit the site so as to ascertain for himself the exact scope nature and quality of the Works to be carried out, general site conditions and the requirements of the Contract. The Tenderer is deemed to have based his tender on the Specification and Drawings and the existing site conditions as verified by Contractor himself.</p> <p>4. Sizes and quantities given in the description of the items in this Bill are approximate and are for reference only. No adjustment will be made if the actual sizes and quantities measured on site differ from those indicated herein.</p> <p>5. Only where there is more than one involved in any particular item has the number been given in parenthesis within the description of such item.</p> <p>6. The rates for all demolition and alteration works shall include for paying all fees and charges for disposal of construction waste.</p>				
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>DEMOLITIONS</u>				
	<u>Demolition, and removal of the following existing sundry items as Drawing No. 716-L28-101, 716-L28-102, 716-L28-103, 716-L28-104 & 716-L28-105</u>				
A	Existing 1100 mm high railing at 4/F (12 m).	1	Item		
B	Existing Parapet wall with finishes at 4/F (14 m2).	1	Item		
C	Existing refill chamber with door at 4/F (3 m2 on plan).	1	Item		
D	Existing 3280 x 5050 mm high shutter at 4/F (1 No.).	1	Item		
E	Existing wall with finishes at 4/F (103 m2).	1	Item		
F	Existing single-leaf door at 4/F (2 No.).	1	Item		
G	Existing double-leaf door at 4/F (2 No.).	1	Item		
H	Existing concrete steps at 4/F (1 No.).	1	Item		
J	Existing Parapet wall with finishes at 5/F (15 m2).	1	Item		
K	Existing wall with finishes at 5/F (106 m2).	1	Item		
L	Existing single-leaf door at 5/F (2 No.).	1	Item		
M	Existing window at 5/F (1 No.).	1	Item		
N	Existing line marking at 5/F.	1	Item		
P	Existing internal finishes for 4/F and 5/F (CFA: 490 m2)	1	Item		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUNDRIES</u>				
A	Allow for carrying out condition/structural survey showing the conditions of the existing building, its surrounding and adjoining properties with photographs including submission of report to the Architect's satisfaction all as described in the Specification and Drawings.	1	Item		
B	Allow for making good all finishes affected by the Works to match existing finishes not itemised above, area of new finishes to be co-ordinated and straightly aligned, all to the satisfaction of the Architect.	1	Item		
C	Allow for stripping out, removal and disposal of the remaining E&M services associated with the demolition of VIE tank including control panel, vaporizers, pipe works, all other associated fixings and accessories, etc and making good of disturbed areas (Demolition of VIE tank carried out by others).	1	Item		
D	Allow for credit value of material arising from the demolition.	1	Item		
E	Allow for provision of all other items not itemised above but mentioned in the Specification or shown on Drawings or essential for the satisfactory completion of the Works (The Tenderer shall submit a breakdown of the cost for this item, if none, state NIL in the extension column.).	1	Item		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>ALTERATIONS</u>				
	<u>INTERNAL WALL</u>				
	<u>Reinforced concrete Grade C35/20 in</u>				
A	200 mm Wall.	8	Cube		
	<u>Formwork to</u>				
B	Wall.	76	Sup.		
C	Jamb and soffits of opening in wall up to 300 mm wide.	5	Run		
	<u>Deformed high yield steel bar reinforcement</u>				
D	Bars 16 mm diameter and below.	847	kg		
	<u>EXTERNAL WALL</u>				
	<u>Waterproof reinforced concrete Grade C35/20 in</u>				
E	300 mm Wall.	2	Cube		
F	150 mm Parapet wall.	13	Cube		
	<u>Formwork to</u>				
G	Wall.	15	Sup.		
H	Parapet wall.	85	Sup.		
	Jamb and soffits of opening in wall up to 300 mm wide.	218	Run		
	<u>Deformed high yield steel bar reinforcement</u>				
J	Bars 16 mm diameter and below.	1660	kg		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>ALTERATIONS</u> (Cont'd)				
	<u>Reinforced concrete Grade C45/20 in</u>				
A	Refill Chamber	1	Cube		
	<u>Formwork to</u>				
B	Refill Chamber	4	Sup.		
	<u>Deformed high yield steel bar reinforcement</u>				
C	Bars 16 mm diameter and below.	18	kg		
	<u>SUNDRY CONCRETE</u>				
D	Mass concrete Grade 15P filling on slab to make up levels.	98	Cube		
	<u>Reinforced concrete Grade C35/20 in</u>				
E	Curb.	2	Cube		
	<u>Formwork to</u>				
F	Riser 100 - 200 mm high.	46	Run		
G	Sides of curb up to 300 mm high.	96	Run		
	<u>PRECAST OR CAST IN-SITU CONCRETE</u> <u>GRADE C35/20 INCLUDING ALL MOULDS,</u> <u>REINFORCEMENT, FINISHING FAIR ON</u> <u>EXPOSED SURFACES WHERE REQUIRED,</u> <u>HOISTING AND SETTING IN POSITION</u> <u>AND BEDDING, JOINTING AND POINTING</u> <u>IN CEMENT MORTAR (1:2:4)</u>				
H	100 x 150 mm Lintel reinforced with one 12 mm diameter GMS steel bar. (<u>In 2 No.</u>)	2	Run		
J	150 x 150 mm Lintel reinforced with one 12 mm diameter GMS steel bar. (<u>In 7 No.</u>)	8	Run		
K	150 x 225 mm Lintel reinforced with one 16 mm diameter GMS steel bar. (<u>In 2 No.</u>)	4	Run		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SPECIAL PREAMBLES</u>				
	In addition to the relevant preambles set out in Bill No. 2, the following apply specifically to this project :-)	
)	
)	
	1. Brickwork or blockwork described as 'reinforced' shall incorporate galvanised woven or expended steel welded fabric/mesh reinforcement or other proprietary horizontal (joint) reinforcement in the bed joints in accordance with requirements of the Specification.)	
)	
)	
	2. Pointing shall be in accordance with the requirements of the Specification.)	
)	
	<u>INTERNAL WALLS (ALL PROVISIONAL)</u>				
	<u>Reinforced waterproof, hand brush applied solid concrete blockwork exceeding 4 m high complete with all strengthening measures comprising 102 x 102 x 23.07 kg/m universal column section column with hot-dip galvanized finishes, fixed to structural floor with 150 x 150 x 8 mm thick galvanized mild steel base plate and 12 mm diameter anchor bolts, 20 mm bitumen impregnated compressible fibre board bolted to ceiling, galvanized mild steel fishtail wall tie welded to universal column, 6 x 100 x 100 x 100 mm clip angles anchored to wall at 1200 mm centres, including acoustic sealants, all necessary fixings and accessories, bond in cement mortar (1:3) as Drawings No. 716-D22-001 to 716-D22-003 and as described</u>				
A	100 mm Wall (Type P2.1).	19	Sup.		
B	150 mm Wall (Type P2.2).	335	Sup.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>INTERNAL WALLS (ALL PROVISIONAL)</u> (Cont'd) <u>Approved fire rated reinforced waterproof, hand brush applied solid concrete blockwork exceeding 4 m high complete with all strengthening measures comprising 102 x 102 x 23.07 kg/m universal column section column with hot-dip galvanized finishes, fixed to structural floor with 150 x 150 x 8 mm thick galvanized mild steel base plate and 12 mm diameter anchor bolts, fire resistance resinous fibre bolted to ceiling, galvanized mild steel fishtail wall tie welded to universal column, 6 x 100 x 100 x 100 mm clip angles anchored to wall at 1200 mm centres, including acoustic sealants, all necessary fixings and accessories, bond in cement mortar (1:3) as Drawings No. 716-D22-001 to 716-D22-003 and as described</u> <u>1 Hour FRP (integrity) and 1 hour FRP (insulation)</u>				
A	100 mm Wall (Type P2.1).	19	Sup.		
B	150 mm Wall (Type P2.2).	95	Sup.		
	<u>(END OF ALL PROVISIONAL)</u>				
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>FINISHES TO EXISTING BUILDING</u>				
	<u>WATERPROOFING</u>				
	<u>Proprietary liquid applied cementitious waterproof system, comprising polymer midified cementitious to a minimum total thickness of 3 mm applied in accordance with manufacturer's recommendations by an approved specialist at the Contractor's expense, including preparing and priming the substrate and all necessary accessories, as described</u>				
A	Horizontal covering on screeded surface (A3).	90	Sup.		
	<u>Separation sheet</u>				
B	0.5 mm Polyester fabric separation sheet laid on waterproofing membrane.	90	Sup.		
	<u>Testing</u>				
C	Allow for carry out tests in connection with waterproofing works as described upon completion.	1	Item		
	<u>INTERNAL FLOOR FINISHES AND SKIRTING</u>				
	<u>Cement, sand and aggregate (1:3:2) screeds</u>				
D	50 mm Screed on slab to receive dust proof surface hardener.	20	Sup.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>INTERNAL FLOOR FINISHES AND SKIRTING (Cont'd)</u>				
	<u>Cement, sand and aggregate (1:3:2) waterproofing screeds</u>				
A	50 mm Screed (minimum) on waterproofing membrane laid to fall to receive dust proof surface hardener.	90	Sup.		
B	50 mm Screed (minimum) on waterproofing membrane to tread and risers laid to fall to receive dust proof surface hardener.	4	Sup.		
C	50 mm Screed (minimum) on slab laid to fall to receive non-slip epoxy resin waterproofing paint.	3	Sup.		
	<u>Self-levelling screeds steel trowel smooth finish with two layers of primer</u>				
D	45 mm Screed on slab to receive homogenous PVC sheet vinyl flooring.	310	Sup.		
E	45 mm Screed on tread and riser to receive homogeneous PVC sheet vinyl flooring.	4	Sup.		
F	20 mm Screed 100 mm high to receive homogeneous PVC sheet vinyl roll-up skirting.	232	Run		
	<u>Cement and sand (1:3) screeds</u>				
G	20 mm Screed 150 mm high cement sand skirting.	83	Run		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>INTERNAL FLOOR FINISHES AND SKIRTING (Cont'd)</u> <u>2 mm Non-slip roll-form flexible homogeneous PVC sheet flooring with 0.7 mm pure PVC transparent wearlayer, reinforced with polyurethane with all joints grooved and hot welded, bedded to screed with PVC floor adhesive and smoothing compound in accordance with manufacturer's recommendations on and laid by an approved Specialist Contractor at the Contractor's expense</u>				
A	Floor (F4).	310	Sup.		
B	Treads and risers (F4).	4	Sup.		
C	100 mm High roll-up skirting with coved base including aluminium copping (S1).	232	Run		
	<u>Two coats of waterproof cement paint, applied all in accordance with the manufacturer's recommendations on</u>				
D	150 mm High skirting (S5).	83	Run		
	<u>One undercoat and two finishing coats of spray applied approved non-slip epoxy resin waterproof paint, applied all in accordance with the manufacturer's recommendations on</u>				
E	Screeded floor (F6).	3	Sup.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>INTERNAL FLOOR FINISHES AND SKIRTING (Cont'd)</u>				
	<u>Dust proof surface hardener paint, applied all in accordance with the manufacturer's recommendations on</u>				
A	Screeded floor (F13).	110	Sup.		
B	Treads and risers (F13).	4	Sup.		
	<u>Sundries</u>				
C	200 x 50 x 8 mm Contrasting color gradino step non-slip nosing tiles with safety line bedded and jointed direct on screed tread in cement sand mortar (1:3) and grouted in coloured cement.	44	Run		
	<u>INTERNAL WALL FINISHES</u>				
	<u>Two coats internal lime/cement spray plaster as described</u>				
D	20 mm Plastering on walls and columns to receive anti-bacteria epoxy paint.	631	Sup.		
E	20 mm Plastering on walls and columns to receive washable distemper.	585	Sup.		
	<u>One undercoat of spray applied primer and three coats of anti-bacteria epoxy paint, applied all in accordance with the manufacturer's recommendations on</u>				
F	Plastered walls and columns (W1).	631	Sup.		
	<u>Two coats of approved washable distemper thinned with petrifying liquid, applied all in accordance with the manufacture's recommendations on</u>				
G	Plastered walls and columns (W6).	585	Sup.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
A	<u>INTERNAL CEILING FINISHES</u>	162	Sup.		
	<u>Skim coat gypsum plaster</u> 6 mm On soffits and beams.				
B	<u>SUSPENDED CEILING</u>	124	Sup.		
	<u>Design, supply and install of two layer of 13 mm (minimum) waterproof gypsum board suspended ceiling including approved suspension system comprising M6 galvanized mild steel threaded rods bolted to concrete soffit, hangers, channels, corner bead and all necessary fixing accessories as Drawing No. 716-D35-002, 716-D35-003 and as described and laid by an approved Specialist Contractor at the Contractor's expense</u>				
C	Flush ceiling 1.50 - 3.00 m below concrete soffit (C3).	38	Sup.		
D	Flush ceiling 3.00 - 4.50 m below concrete soffit (C3).	70	Run		
E	Vertical bulkhead not exceeding 300 mm high.	20	Sup.		
	<u>Design, supply and install of 600 x 600 mm wide proprietary pre-formed powder coated antibacterial galvanized steel suspended ceiling system comprising 0.5 mm thick hot dipped galvanized steel panel having tegular edges in compliance with ASTM A525, EN 10142/10143 and 10147, DIN 17162 and 59232 with electrostatic polyester powder coating and black non-woven acoustical tissue, connected to 15 mm wide galvanized mild steel carrier, supported in and including approved fire rated narrow profile suspension system and all necessary fixing accessories as Drawing No. 716-D35-006 and as described and laid by an approved Specialist Contractor at the Contractor's expense</u>				
F	Aluminium ceiling 1.50 - 3.00 m below concrete soffit (C5).	130	Sup.		
	Aluminium ceiling 3.00-4.50 m below concrete soffit (C5).				
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>INTERNAL CEILING FINISHES</u> (Cont'd)				
	<u>One undercoat of spray applied primer and two finishing coats of spray applied approved anti-fungal epoxy paint, applied all in accordance with the manufacturer's recommendations on</u>				
A	Plastered soffits and beams 5.00 - 10.00 m high (C2).	6	Sup.		
	<u>Two coats of approved washable distemper thinned with petrifying liquid, applied all in accordance with the manufacture's recommendations on</u>				
B	Plastered soffits and beams 5.00 - 10.00 m high (C7).	156	Sup.		
	<u>One undercoat of waterborne epoxy primer and two finishing coats of waterborne washable anti-mould epoxy paint in semi-gloss finish, applied all in accordance with the manufacturer's recommendations on</u>				
C	Gypsum board suspended ceiling.	162	Sup.		
D	Gypsum board vertical bulkhead not exceeding 300 mm high.	70	Run		
	<u>EXTERNAL WALL FINISHES</u>				
	<u>Cement, sand and coarse sand (1:2:6) waterproof plastering</u>				
E	20 mm Plastering on walls and columns to receive ceramic tile.	18	Sup.		
	<u>Approved 45 x 145 x 7 mm ceramic wall tiling with self-cleaning function in matt finish bedded in mortar (cement and granite fines 1:4) on screed and grouted with approved colour grout as described</u>				
F	Walls and columns (W4).	18	Sup.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>EXTERNAL CEILING FINISHES</u>				
	<u>Design, supply and install of 300 x 1200 x 3 mm thick typhoon-resistant outdoor type proprietary strip aluminum suspended ceiling with gloss acrylic resin based enamel and 0.07 mm thick polyester based powder coating connected to 3000 x 1.5 mm thick galvanized steel Z-shape runner supported in and including pre-punched primary and secondary suspension system comprising galvanized steel security clamp, C channel and all necessary fixing accessories as described and laid by an approved Specialist Contractor at the Contractor's expense</u>				
A	Aluminium ceiling 1.50 - 3.00 m below concrete soffit (C6).	1	Sup.		
B	Aluminium ceiling 3.00 - 4.50 m below concrete soffit (C6).	4	Sup.		
	<u>LINE MARKING, LETTERING, ETC.</u>				
	<u>Two coats of a cold applied car park line marker compatible on concrete, woodwork, metalwork, glass or plastered surfaces as follows (PROVISIONAL)</u>				
C	Line 25 mm wide.	30	Run		
D	Line 50 mm wide.	15	Run		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>DOORS</u>				
	<u>Notes :</u>				
	1. Timber doors and vision panels and louvres thereon shall be as detailed on Drawings No. 716-D32-001 to 716-D32-013, 716-S32-001 to 716-S32-009, 716-S32-0S-001 to 716-S32-9N-001.)))))	
	2. Doors described as having glazing vision panels shall include for glass and glazing with non-wire laminated clear glass for fire rated door and 6 mm tempered clear glass for non-fire rated doors and for glazing beads as detailed on Drawings No. 716-D32-004, 716-D32-011 and 716-S32-001 to 716-S32-009 and unless otherwise specified.)))))))))	
	3. Doors described as having louver shall include 9 mm wood louver blade with the spacing of 25-30 mm and painted to match colour of plastic laminated as detailed as Drawing No. 716-D32-004.)))))	
	4. The unit rates priced below for fire rated doors shall include for all necessary edging around doors, frames, thermal insulation, fire barriers, intumescent strips, fire stops and signage and the like, finishes, bedding, ground and grouting frames and all other necessary accessories as required to achieve the requirements of Drawings and Specification, irrespective of whether these items have been explicitly mentioned.))))))))))	
	5. Doors having acoustic seal as shown on drawings, the rate of which shall be deemed to include acoustic seal as required to achieve requirement of the Specification, irrespective of whether these items have been explicitly described or not.)))))	
	6. Sizes of door sets stated in the descriptions are sizes net of frame.))	
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>DOORS (Cont'd)</u>				
	<u>Hollow core flush doors faced both sides with plastic laminated sheeting comprising 75 mm hardwood stile at both sides, 75 mm hardwood top rail and bottom rail, 25 mm hardwood eggcrete ribs at 125 centres bothways, lipped all round with 13 mm teak edging generally and with 25 mm teak edging to meeting edges of double-leaf doors including 100 mm lockrail and 65 x 250 mm lockpieces, door frame protector, signage, all necessary fixing and accessories as described (Ironmongery measured separately)</u>				
A	Pair of 50 mm doors 1500 x 2100 mm high overall with 200 x 800 mm flush glass vision panel and 450 x 650 louver to one leaf (Type D5).	2	No.		
	<u>Proprietary solid core flush doors faced both sides with plastic laminated sheeting comprising 50 mm hardwood filling pieces fixed to 100 mm hardwood style at both sides and 100 mm hardwood top rail and bottom rail, and lipped all round with 13 mm teak edging generally and with 25 mm teak edging to meeting edges of double-leaf doors including 100 mm lockrail and 65 x 250 mm lockpieces, door frame protector, custom formed door-frame guard, signage, all necessary fixing and accessories, all as described (Ironmongery measured separately)</u>				
B	55 mm Door 900 x 2100 mm high with 200 x 800 mm flush glass vision panel (Type S1).	1	No.		
C	55 mm Door 900 x 2100 mm high (Type S2).	2	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>DOORS (Cont'd)</u>				
	<u>Proprietary solid core flush doors faced both sides with plastic laminated sheeting comprising 50 mm hardwood filling pieces fixed to 100 mm hardwood style at both sides and 100 mm hardwood top rail and bottom rail, and lipped all round with 13 mm teak edging generally and with 25 mm teak edging to meeting edges of double-leaf doors including 100 mm lockrail and 65 x 250 mm lockpieces, door frame protector, custom formed door-frame guard, signage, all necessary fixing and accessories, all as described (Ironmongery measured separately) (Cont'd)</u>				
A	55 mm Door 900 x 2100 mm high with 200 x 800 mm flush glass vision panel and 600 x 650 mm louver (Type S2).	1	No.		
B	50 mm Door 900 x 2100 mm high with 200 x 800 mm flush glass vision panel and 600 x 650 mm louver (Type S1).	1	No.		
	<u>Design, supply and install proprietary fire rated solid core flush doors comprising 50 mm hardwood filling pieces fixed to 100 mm hardwood style at both sides and 100 mm hardwood top rail and bottom rail, and lipped all round with 13 mm teak edging generally and with 25 mm teak edging to meeting edges of double-leaf doors including 100 mm lockrail and 65 x 250 mm lockpieces, door frame protector, custom formed door frame guard, signage, all necessary fixing and accessories, all as described (Ironmongery measured separately)</u>				
	<u>1 Hour FRP (integrity) and 1 hour FRP (insulation) faced both sides with plastic laminated sheeting</u>				
C	55 mm Door 900 x 2100 mm high with 200 x 800 mm flush glass vision panel (Type S4).	2	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>DOORS (Cont'd)</u>				
	<u>Proprietary galvanized mild steel doors and frames complete with stainless steel hairline finish comply with ANSI/SDI 100 and BSEN 1634 part 1 and 3, comprising 1.6 mm hot dipped zinc coated door panel and 2 mm hot dipped zinc coated door frames, inverted steel channel reinforcing the top and bottom of doors, vertical steel stiffeners, steel fixing lug, bedding and grouting frames, rust inhibiting primer comply with ANSI A224, signage, all necessary fixing and accessories as described (Ironmongery measured separately)</u>				
A	50 mm Door 900 x 2100 mm high (Type S2).	4	No.		
B	50 mm Door 900 x 2100 mm high (Type S4).	1	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO NON-FIRE RATED TIMBER DOORS AS DESCRIBED</u>				
	<u>Hinges</u>				
A	4.5" x 4.5" x 4.6 mm 5 Knuckle 4 ball bearings stainless steel ANSI / BHMA Grade 1 butt hinges with non removable pin, ANSI template drilled, comply BS EN1935, in grade 304 stainless steel satin finish, ANSI hole pattern countersunk to suit 12 x 32 mm wood screws or M6 machine screws (H1).	28	No.		
	<u>Locks and latches</u>				
B	Sashlock lockcase 70 mm backset comply EN1634-1 (2 hrs) & EN12209 3-S-8-1-0-G-4-B-C-2-0; AISI316 deadbolt, latchbolt, forend, safety lever handle, certified EN1906 3-7-/-1-1-4-0-A, in grade 316 satin stainless steel finish, comply EN1303 1-6-/-1-/-C-6-2, with 70mm cylinder (L1).	1	No.		
C	Nightlatch lockcase, anti-thrust latch, EN1634-1 (120 mins) & EN12209 3-S-8-1-0-G-4-B-C-2-0, 70 mm backset, grade 316 latchbolt in satin stainless steel finish, forend and strike plate; safety tubular 316 stainless steel lever handle, EN1906 3-7-/-1-1-4-0-A; with 45mm euro profile half cylinder, EN1303 1-6-/-1-/-C-6-2 (L3).	5	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO NON-FIRE RATED TIMBER DOORS AS DESCRIBED (Cont'd)</u>				
	<u>Locks and latches (Cont'd)</u>				
	<u>Door closers</u>				
A	Cam action slide arm door closer, comply BS EN1634-1 (2 hrs) & BS EN1154:1997 4-8-1-4-1-1-3 & BFA 2008, close the door up to 180 degree, push side installation, size EN1 - 4, cover in contour design silver finish (C1).	1	No.		
B	Surface mounted overhead door closer, with selectable closing force size EN3/4, comply EN1154:1997 4-8-3/4-1-1-2, BS EN1634-1(2 hrs) and BFA design, certifiere approved, standard arm with parallel arm bracket (C3).	7	No.		
	<u>Bolts</u>				
C	300 mm + 600 mm Grade 316 stainless steel flush bolt complete with and including dust excluded socket, in satin finish (FB1).	2	No.		
	<u>Door stops</u>				
D	Grade 316 stainless steel dome shaped floor mounted door stop, in satin finish (DS1).	8	No.		
	<u>Non-PVC push plates and kick plates as described</u>				
E	Push plate 1 mm thick x 300 mm high.	9	Run		
F	Kick plate 1.5 mm thick x 300 mm high.	9	Run		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO FIRE RATED TIMBER DOORS AS DESCRIBED</u>				
	<u>Hinges</u>				
A	4.5" x 4.5" x 4.6 mm 5 Knuckle 4 ball bearings stainless steel ANSI / BHMA Grade 1 butt hinges with non removable pin, ANSI template drilled, comply BS EN1935, in grade 304 stainless steel satin finish, ANSI hole pattern countersunk to suit 12 x 32 mm wood screws or M6 machine screws (H1).	8	No.		
	<u>Locks and latches</u>				
B	Nightlatch lockcase, anti-thrust latch, EN1634-1 (120 mins) & EN12209 3-S-8-1-0-G-4-B-C-2-0, 70 mm backset, grade 316 latchbolt in satin stainless steel finish, forend and strike plate; safety tubular 316 stainless steel lever handle, EN1906 3-7-/-1-1-4-0-A; with 45mm euro profile half cylinder, EN1303 1-6-/-1-/-C-6-2 (L3).	1	No.		
	<u>Door closers</u>				
C	Surface mounted overhead door closer, with selectable closing force size EN3/4, comply EN1154:1997 4-8-3/4-1-1-2, BS EN1634-1(2 hrs) and BFA design, certifiere approved, standard arm with parallel arm bracket (C3).	2	No.		
	<u>Door stops</u>				
D	Grade 316 stainless steel dome shaped floor mounted door stop, in satin finish (DS1).	2	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO FIRE RATED TIMBER DOORS AS DESCRIBED (Cont'd)</u>				
	<u>Approved non-PVC push plates and kick plates</u>				
A	Push plate 1 mm thick x 300 mm high.	1	Run		
B	Kick plate 1.5 mm thick x 300 mm high.	1	Run		
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO NON-FIRE RATED METAL DOORS AS DESCRIBED</u>				
	<u>Hinges</u>				
C	4.5" x 4.5" x 4.6 mm 5 Knuckle 4 ball bearings stainless steel ANSI / BHMA Grade 1 butt hinges with non removable pin, ANSI template drilled, comply BS EN1935, in grade 304 stainless steel satin finish, ANSI hole pattern countersunk to suit 12 x 32 mm wood screws or M6 machine screws (H1).	20	No.		
	<u>Locks and latches</u>				
D	Nightlatch lockcase, anti-thrust latch, EN1634-1 (120 mins) & EN12209 3-S-8-1-0-G-4-B-C-2-0, 70 mm backset, grade 316 latchbolt in satin stainless steel finish, forend and strike plate; safety tubular 316 stainless steel lever handle, EN1906 3-7-/-1-1-4-0-A; with 45mm euro profile half cylinder, EN1303 1-6-/-1-/-C-6-2 (L3).	3	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO NON-FIRE RATED METAL DOORS AS DESCRIBED (Cont'd)</u>				
	<u>Door closers</u>				
A	Cam action slide arm door closer, comply BS EN1634-1 (2 hrs) & BS EN1154:1997 4-8-1-4-1-1-3 & BFA 2008, close the door up to 180 degree, push side installation, size EN1 - 4, cover in contour design silver finish (C1).	3	No.		
B	Surface mounted overhead door closer, with selectable closing force size EN3/4, comply EN1154:1997 4-8-3/4-1-1-2, BS EN1634-1(2 hrs) and BFA design, certifiere approved, standard arm with parallel arm bracket (C3).	2	No.		
	<u>Door stops</u>				
C	Approved grade 316 stainless steel dome shaped floor mounted door stop, in satin finish (DS1).	5	No.		
	<u>Pull handles and other accessories</u>				
D	Touchbar device with microswitch, FSD approval listed, ANSI 156.3 Grade 1 & BS EN1125, in satin stainless steel finish, certifiere approved, includes concealed conduit and microswitch for control of electromagnetic locks (PB1).	2	No.		
E	Electro-magnetic door lock, monitoring relay dry contact and red or green LED, with 24VDC transformer with timer, 2 nos. of emergency breakglass (EML).	2	No.		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
A	<u>MASTERKEYING</u>				
	Allow for masterkeying including provisions of 3 grand master keys and 3 master keys for each individual floor or major facility, all as described.	1	Item		
B	<u>HANDRAILS TO STAIRS AS DRAWING NO. 716-D24-001 TO 002</u>				
	<u>Galvanized mild steel framed and welded</u>				
	40 mm Diameter tubular handrail 850 mm above finished floor level with end cup face to wall supported on and including 12 mm diameter bracket 140 mm girth with one end fishtailed and fixed to with cement grouting, complete with 50 mm diameter x 5 mm thick cover plate at wall face including braille and raised letters.	55	Run		
C	<u>RAILING TO STAIRS AS DRAWING NO. 716-D24-003</u>				
	<u>Galvanized mild steel framed and welded</u>				
	Railing 1400 mm high above tread; comprising 20 mm diameter tubular top rail, 15 mm diameter bottom bar, welded with 20 mm diameter tubular balusters each in 750 mm long at 120 mm centres and 20 mm diameter tubular supporting post at 900 mm centres; 40 mm diameter tubular handrail supported on and welded to 12 mm diameter bracket welded to tubular balusters complete with 50 mm diameter x 5 mm thick cover plate at wall face including braille and raised letters.	5	Run		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	HK \$
A	<u>FIRE SHUTTER WITH SUPPORTING FRAME AS DRAWING NO. 716-D26-014 AND 716-D26-028</u> <u>Design, supply and install electrical operated vertical fire shutter with supporting frame comprising fire-rated promat board enclosure with expanded wire mesh supported by galvanized mild steel frame bolted to soffit of slab, heavy duty track, including all necessary wiring connection, fixings and accessories</u> <u>2 Hour FRP (integrity) and 2 hour FRP (insulation)</u>	1	No.		
	Vertical fire shutter 3020 x 3700 mm high.				
Carried to Collection					