ELEMENTAL COST BREAKDOWN

COMPRISING -

PART (A) - PROJECT PARTICULARS

PART (C) - OUTLINE SPECIFICATION

PART (B)(i) - ELEMENTAL COST BREAKDOWN - BLOCK PARTICULARS (B)(ii) - ELEMENTAL COST BREAKDOWN - SUMMARY

PART (D) - DOMESTIC FLOOR PLANS AND ELEVATIONS

Explanatory Notes

- 1. Figures should be rounded to 2 decimal places for Items B7, B8, B10 to B12 and 3 decimal places for Items B13 to B20 of Part (B)(i).
- 2. Fluctuations have been excluded from all costs entered but indicated as a separate amount in Item 2.6 in Part (B)(ii).
- 3. Outline Specification at Part (C) have been modified to suit cost model project.
- **4.** Any relevant observations on individual elements have been entered in the "Remarks" column in Part (B)(ii).
- **5.** All projects and price information given herein are restricted material and only for internal reference within Housing Department.

Block Type: Non-standard Cruciform Other SSF Block

for June 2024 Construction Cost Yardsticks

PART (A) - PROJECT PARTICULARS

A 1	Title:	ECB for Non-standard Cruciform Block (Other Subsidised Sale Flats) for June 2024 Construction Cost Yardsticks			
A2	Project:	Construction of Public Housing Development at Kai Tak Site 2B2			
А3	Contract No. :	20200392			
A4	Location:	Kai Tak Site 2B2			
A5	Scope of Works :	1 No. 41-storey Non-standard Cruciform Block (Block B),			
		all associated drainage and external works etc.			
A6	Tender in Date :	N/A			
A7	HD's Tender Price Index :	N/A			
A8	Contract Period :	N/A			
A9	Contract Sum :	N/A			
A10	Project Manager :	N/A			
A11	Contract Manager :	CA/4			
A12	Structural Engineer :	CSE/3			
A13	Building Services Engineer :	CBSE/2			
A14	Quantity Surveyor :	CQS/1			
A15	Main Contractor :	N/A			

A16 Remarks:

(Please state any particular constraints/special conditions that would affect the costing as compared to a site of normal condition (e.g. Infilled/congested site, difficult site access etc.))

PART (B)(i) - Elemental Cost Breakdown - Block Particulars

reys)
oof)

		1	ı	
	For superstructure only	Unit	Ratio	Remarks, if any
B13	Total volume of reinforced concrete / CFA	m ³ /m²	0.479	- Excluding volume of precast concrete components
B14	Total formwork area / CFA (total area of formwork should include those quantities measured linear in the bills, multiplied by the mean widths of the relevant ranges)	m²/m²	3.056	
B15	Total wall formwork area / CFA (total area of formwork should include those quantities measured linear in the bills, multiplied by the mean widths of the relevant ranges)	m²/m²	2.500	
B16	Total weight of steel reinforcement / total volume of reinforced concrete in superstructure (total weight of reinforcement should include fabric reinforcement measured number in the bills, multiplied by the weight per number)	kg/m ³	220.918	- Total quantity of reinforcement is / is-net* provisional - Excluding quantities in precast concrete components
B17	Total weight of steel reinforcement / CFA (total weight of reinforcement should include fabric reinforcement measured number in the bills, multiplied by the weight per number)	kg/m²	105.759	- Total quantity of reinforcement is / is-net* provisional - Excluding quantities in precast concrete components
B18	Elevation area / CFA (the elevation area should exclude area for feature/fittings such as water tanks, fins, etc. at roof level and ground floor, i.e. from first floor up to the top of parapets, if any)	m²/m²	0.940	
B19	Total perimeter of domestic floor / CFA	m/m²	0.337	
B20	Total window area / CFA	m²/m²	0.202	
		l	1	

^{*} delete as appropriate

[#] to be calculated according to DCMBI P24/00 (August 2002 revision)

FOR REFERENCE ONLY		<u> </u>
Preliminaries included in 1.1, 2.1 to 2.2 and 2.4: 18.05 %	\$/m2CFA	Remarks, if any
11.11 to 2.2 and 2.4 . 16.03 //	(June 2024)	Kemarks, ir any
1 01 4 4		
 Substructure Columns, structural walls, slabs, beams, lift pits etc. 	97.00	
(below structural floor level of ground floor)	77.00	
1.2 Pile caps and footings	_	
1.3 Raft Foundations	-	
Sub-total	(1.): 97.00	
2. Superstructure		
2.1 Concrete structure (including external walls) 2.1.1 Cast in-situ frame	2,967.48	
2.1.2 External walls	2,907.40	
2.1.2.1 Non-structural external walls	_	
2.1.2.2 Precast facade	553.45	
2.1.3 Precast concrete structural components	1,901.17	
e.g. walls, beams, bath & kitchen units, slabs and staircases et	c.	
2.1.4 Transfer structures	285.20	
2.1.5 Others (Filling and waterways)	6.41	
Sub-total (. 2.2 Architectural, Builder's Work and Finishes	2.1): 5,713.71	
Include non-structural partitions, carpentry & joinery, steel and metalwork, finishes, plumbing	, etc.	
2.2.1 Internal non-structural partition walls	202.96	
2.2.2 Internal finishes		
2.2.2.1 Internal floor finishes	260.00	
2.2.2.2 Internal wall finishes	475.18	
2.2.2.3 Internal ceiling finishes	98.23	
2.2.3 Roof finishes (including waterproofing)	48.72	
2.2.4 External finishes		
2.2.4.1 External floor finishes	221.55	
2.2.4.2 External wall finishes	331.55	
2.2.4.3 External ceiling finishes2.2.5 Fittings & fixtures (including cabinets, cooking	2.07 369.27	
benches, balustrades and handrails, etc.)	309.27	
2.2.6 Windows	616.83	
2.2.7 Doors	589.29	
2.2.8 Sanitary fittings	70.40	
2.2.9 Plumbing installation (excluding sanitary fittings)	663.79	
2.2.10 Builder's Works in connection with services	199.69	
2.2.11 Builder's profit and attendance on M&E services	21.97	
2.2.12 Others (please specify)	- 2.040.05	
Sub-total (. 2.3 Building Services	2.2): 3,949.95	
2.3.1 Electrical Installation	1,281.17	
2.3.2 Fire Services and Water Pump Installations	239.62	
2.3.3 Lift Installation	332.21	
2.3.4 MVAC Installation	-	
2.3.5 Security, CABD & STDN Installation	-	Included in Item 2.3.1
2.3.6 Gas Installation	-	
2.3.7 Automated Refuse Collection System	-	
2.3.8 Others (please specify)	-	
Sub-total (
Total (1. to		1
2.4 Others (Taking Care of the Works after completion, Intake Ambassado		1
Sub-total (1
2.5 Contingencies (apportioned)	220.53	
Sub-total (Total (to		
2.6 Fluctuations (apportioned)	2.5): 11,854.00 562.00	1
		1
Sub-total (. Grand t		
Grana t	nai: 12,410.00	I

Block Type: Non-standard Cruciform Other SSF Block for June 2024 Construction Cost Yardsticks

PART (C) - OUTLINE SPECIFICATION

1. Substructure (including columns, structural walls, slabs, beams, lift pits, etc. below structural floor level of ground floor)

- 1.1 Reinforced concrete walls, columns, slabs, beams, ground beams, finishes to cable trenches
- 1.2 Pile caps and footings

N/A

1.3 Raft Foundations

N/A

2. Superstructure

2.1 Concrete structure (including external walls)

2.1.1 Cast in-situ frame

Generally conventional in-situ reinforced concrete load-bearing walls and beams framing with reinforced concrete suspended slabs

2.1.2 External walls

2.1.2.1 Precast facade

Generally precast concrete facades units

2.1.3 Precast concrete structural components

Generally volumetric precast bathrooms, volumetric precast kitchens, precast concrete or semi-precast concrete slabs, precast concrete staircases and landings, precast concrete wall, precast concrete water tanks, precast tie beams etc.

2.1.4 Transfer structures

Generally in-situ reinforced concrete transfer plates and transfer beams

2.1.5 Others

Nil

2.2 Architectural, Builder's Work and Finishes

Include non-structural partitions, carpentry & joinery, steel & metalwork, finishes, plumbing, etc.

2.2.1 Internal non-structural partition walls

- i. Inside domestic flats Panel wall partitions
- ii. Other areas Generally solid concrete block walls, precast concrete curbs and lintels

2.2.2 Internal finishes

2.2.2.1 Internal floor finishes

- i. Entrance Lobby
- ii. Typical Floor Lift Lobbies and Corridors
- iii. Bedrooms, Living and Dining Rooms
- iv. Bathrooms
- v. Kitchens
- vi. Services Rooms
- vii. Staircases and Protected Lobbies of Staircases
- viii. Refuse Storage and Materials Recovery Rooms

- Non-slip homogeneous tiles and screed
- Non-slip homogeneous tiles and screed
- Power float or steel trowel
- Non-slip homogeneous tiles and screed on waterproofing
- Non-slip homogeneous tiles and screed on waterproofing
- Cement sand screed only
- Generally screed on landing and fairfaced finish with nosing on flight
- Quarry tiles and screed on waterproofing

PART (C) - OUTLINE SPECIFICATION

2.2.2.2 Internal wall finishes

i. Entrance Lobby

 Generally ceramic tiles at lower portion with emulsion paint on skim coat above on fair-faced concrete

Typical Floor Lift Lobbies and Corridors

Homogeneous skirting tiles and acrylic paint with texture coat on skim coat on fairfaced concrete or on rendering

iii. Bedrooms, Living and Dining Rooms

 Emulsion paint on skim coat on fairfaced concrete or panel wall

iv. Bathrooms

Coloured glazed ceramic tiles on rendering and waterproofing or on waterproofing on panel wall at lower portion with emulsion paint on skim coat above on rendering or on panel wall

v. Kitchens

 Coloured glazed ceramic tiles on rendering and waterproofing or on waterproofing on panel wall at lower portion with emulsion paint on skim coat above on rendering or on panel wall

vi. Services Rooms

- Emulsion paint on skim coat on fairfaced concrete or on rendering

vii. Staircases and Protected Lobbies of Staircases

 Acrylic paint on skim coat on fairfaced concrete or on rendering

viii. Refuse Storage and Materials Recovery Rooms

- Glazed ceramic tiles

2.2.2.3 Internal ceiling finishes

i. Entrance Lobby

ii. Typical Floor Lift Lobbies and

emulsion paint on skim coat on fairfaced concrete
- Acrylic paint on skim coat on fairfaced concrete

Proprietary aluminium suspended ceilings and

Emulsion paint on skim coat on fairfaced concrete

Corridors
iii. Bedrooms, Living and Dining Rooms

iv. Bathrooms
v. Kitchens

vi. Services Rooms vii. Staircases and Protected Lobbies of Emulsion paint on skim coat on fairfaced concrete
Emulsion paint on skim coat on fairfaced concrete
Emulsion paint on skim coat on fairfaced concrete
Acrylic paint on fairfaced concrete (or on skim coat

Staircases
viii. Refuse Storage and Materials
Recovery Rooms

for protected lobbies)

External emulsion paint on skim coat on fairfaced concrete

2.2.3 Roof finishes (including waterproofing)

Generally precast concrete tiles on proprietary waterproof membrane roofing on insulation and screed to falls including aluminium flashing

2.2.4 External finishes

2.2.4.1 External floor finishes

N/A

2.2.4.2 External wall finishes

Generally finished with acrylic paint with texture coat

2.2.4.3 External ceiling finishes

Generally finished with acrylic paint without texture coat

2.2.5 Fittings & fixtures (including cabinets, cooking benches, balustrades and handrails, etc.)

The following built-in fittings are provided: -

Prefabricated sink units and adjustable polymer resin cooking bench units, mirrors, laundry racks for domestic flats Letter boxes, pipe duct doors, refuse chutes, access panels, hose reel cabinets, cat ladders, signage, security counters and sundry built-in items

2.2.6 Windows

Clear anodized aluminum windows with clear float glass or patterned glass

PART (C) - OUTLINE SPECIFICATION

2.2.7 Doors

iii.

i. Flat Entrances 54 mm thick doorsets to achieve -/60/60 minutes fire resistance rating (FRR) requirement

50 mm thick doorsets to achieve -/30/30 minutes FRR requirement with glass panels

Bathrooms 46 mm thick doorsets and proprietary plastic folding doorsets

> 50 mm thick doorsets to achieve -/30/30 minutes FRR requirement

Doorsets to achieve -/60/60 minutes FRR requirement

Metal doors

Proprietary doorsets to achieve -/60/60 minutes FRR requirement with glass panels

Metal doors

II.	Kitchens

iv. Staircases

Typical Floor Services Rooms V.

Ground Floor and Roof Services Rooms vi. vii. Refuse Storage & Material Recovery

Rooms

viii. Hose Reels and Water Meter Cabinets

ix. Ironmongeries for Doors

2.2.8 Sanitary fittings

Sanitary fittings equal to SSF standard or equivalent

2.2.9 Plumbing installation (excluding sanitary fittings)

Generally plastic pipes and coated cast iron pipes with roof outlets, etc.

Soil, waste and ventilation pipe system Generally coated cast iron pipes, epoxy coated cast iron pipes and plastic pipes with P-traps, W-traps, floor drains, etc.

> Generally copper pipes, insulated copper pipes, and ductile iron pipes

Insulated coated copper pipes

Generally plastic pipes and ductile iron pipes

Generally galvanized steel pipes

Generally copper pipes Generally plastic pipes

Generally copper pipes and plastic pipes

Rainwater disposal system

ii.

iii. Cold water system

iv. Hot water system Flushing water system ٧. vi.

Cold water for fire services system

vii. Floor washing system

Drain pipes for air conditioners viii.

Irrigation system ix.

2.2.10 Builder's Works in connection with services

Hose reel nozzle enclosures, fire resistance enclosures and cover plates to E&M adaptable boxes, concrete plinths and machine bases, earthing terminals, lightning protection, etc.

2.2.11 Builder's profit and attendance on M&E services

Profit and attendance have been allowed for Electrical Installation, Fire Services and Water Pump Installation, Lift Installation

2.2.12 Others

Nil

2.3 Building Services

Electrical Installation

Main and sub-main LV distribution system LV switchboard, switchgears, armoured/non-armoured cables, fire resistant cables and bus ducts

Electrical risers, sub-circuit wiring including concealed conduits, standard light fittings to common circulation areas and emergency generator

All electric provisions within domestic flats including MCCB, RCB, sockets, switches, etc.

2.3.2 Fire Services and Water Pump Installations

Hose reels, fire hydrants and hand operated fire fighting appliances generally F.S. water pumps, pipework and accessories for fire hydrant and hose reel systems Water pumps for cold water system and flushing water system

2.3.3 Lift Installation

6 No. Passenger lifts serving 40 domestic storeys to Block B

2.3.4 MVAC Installation

N/A

Block Type: Non-standard Cruciform Other SSF Block for June 2024 Construction Cost Yardsticks

PART (C) - OUTLINE SPECIFICATION

2.3.5 Security, CABD & STDN Installation

Intercom phone to each flat, panic alarm, CCTV to lift cars and entrance CCTV cameras provided at front entrances are integrated with the CABD system BMS, CABD, STDN installation and telephone outlets to all rooms

2.3.6 Gas Installation

Gas distribution pipe work, gas water heaters to kitchens and bathrooms

2.3.7 Refuse Handling System Installation

N/A

2.3.8 Others

N/A

2.4 Others

See Part (B)(ii) - Elemental Cost Breakdown - Summary