

[illegible]



2. Contractor's Superintendents

Grand Total : HK\$ 6,504,000.00

Average per month : HK\$ 406,500.00/mth

Rate

a. Construction Period						
- Project Manager/A PM	\$	55,000	16 mths	1.0 nos.	PM	HK\$ 880,000.00
- Site Agent	\$	28,000	16 mths	1.0 nos.	SA	HK\$ 448,000.00
- General Foreman	\$	22,000	16 mths	1.0 nos.	GF	HK\$ 352,000.00
- Foreman	\$	19,000	16 mths	3.0 nos.	F	HK\$ 912,000.00
- A. Foreman	\$	15,000	16 mths	3.0 nos.	AF	HK\$ 720,000.00
- Building Services Co-ordinator (BSC o)/ABSC o	\$	43,000	16 mths	1.0 nos.	Bs Co	HK\$ 688,000.00
- Senior Q.S. (Including for final account)	\$	35,000	16 mths	0.0 nos.		HK\$ -
- Q.S. (Including for final account)	\$	26,000	16 mths	1.0 nos.	QS	HK\$ 416,000.00
- A.Q.S. (Including for final account)	\$	15,000	16 mths	1.0 nos.	A.Q.S.	HK\$ 240,000.00
- Project Co-ordinator	\$	22,000	16 mths	1.0 nos.	PC	HK\$ 352,000.00
- Site Engineer	\$	22,000	8 mths	1.0 nos.	SE	HK\$ 176,000.00
- Graduate Engineer	\$	14,000	16 mths	0.0 nos.		HK\$ -
- Ex-C ITA	\$	3,500	16 mths	0.0 nos.		HK\$ -
- Site Clerk	\$	8,500	16 mths	1.0 nos.	Clerk	HK\$ 136,000.00
- Store Keeper	\$	8,000	16 mths	0.0 nos.		HK\$ -
- Amah	\$	7,500	16 mths	0.0 nos.	Amah	HK\$ -
- Labour	\$	12,500	16 mths	2.0 nos.		HK\$ 400,000.00
b. Maintenance Period						
- Site Agent	\$	28,000	12 mths	1.00 nos.		HK\$ 336,000.00
- Foreman	\$	19,000	12 mths	1.00 nos.		HK\$ 228,000.00

Allowance for MPF, Double Pay... etc. HK\$ 220,000.00



3. Setting Out

Grand Total : HK\$ 3,110,000.00

Average per month : HK\$ 194,375.00/mth

Rate

a. Podium, External Works & Car Park

- Initial Setting Out					HK\$	50,000.00
- Senior Surveyor	\$	20,000	10 mths	4.0 nos.	1 Blk(s). HK\$	800,000.00
- Leveller	\$	16,000	10 mths	4.0 nos.	1 Blk(s). HK\$	640,000.00
- Survey Equipment						Included

b. Super-structure (Tower Blocks)

- Initial Setting Out					HK\$	-
- Senior Surveyor	\$	20,000	9 mths	5.0 nos.	1 Blk(s). HK\$	900,000.00
- Leveller	\$	16,000	9 mths	5.0 nos.	1 Blk(s). HK\$	720,000.00
- Survey Equipment						Included

Allowance for MPF, Double Pay... etc. 0% N / A



4. Insurances		Grand Total :	HK\$	7,125,000.00
		Average per month :	HK\$	445,312.50/mth
A. <u>Accident or Injury to Workers</u>		Rate		
a. Employee Compensation Allow	1.20% of Engineer's Budget (HK\$475,000,000.00)		HK\$	5,700,000.00
b. Levies for Employee Compensation Allow	11.30% of Employee Compensation			
		Sub-Total :	HK\$	5,700,000.00
B. <u>Damage to Person and Property</u>		Rate		
a. Contractors All Risk Insurance Allow	0.30% of Engineer's Budget (HK\$475,000,000.00)		HK\$	1,425,000.00
b. Plant Value Allow	1.0% of Plant Value			N / A
c. Excess			HK\$	-
C. <u>Professional Indemnity Cover</u>		Rate		
a. Allow	of Amount stated in Tender Documents			
		Sub-Total :	HK\$	1,425,000.00





5. Levies

Grand Total : HK\$3,372,500.00

			Average per month : HK\$210,781.25/mth	
		Rate		
a. Allow	0.65%	(0.25%+ 0.40%) of Engineer's Budget for Pneumoconiosis and Mesothelioma levy & C onstruction Industry Levy (C WRA levy included in C below)		
Engineer's Budget		\$475,000,000.00		
> Lift				
> Electrical				
> AC MV				
> Fire Service				
		Sub-Total	\$475,000,000	
Allow	0.65%	of Engineer's Budget	HK\$3,087,500.00	
b. Allow	0.03%	of Engineer's Budget for HKC A	HK\$142,500.00	
c. Allow	0.03%	of Engineer's Budget for C onstruction Workers Registration Authority	HK\$142,500.00	
			Sub-Total : HK\$3,372,500.00	



7. Plant					Grand Total :	HK\$	4,352,400.00
					Average per month :	HK\$	272,025.00/mth
A. General Plant					Rate		
a. Concrete pump trucks (for Tower)	\$	7,000	1 days	0.0 nos.	HK\$	-	
b. Lorry for transport in % bending Yard	\$	10,000	8 mths	0.0 nos.	HK\$	-	
c. Mobile Crane - 50T	\$	56,200	2 mths	1.0 nos.	HK\$	112,400.00	
d. Mobile Crane - 80T	\$	120,000	1 mths	1.0 nos.	HK\$	120,000.00	
e. mobile crane for off site yard 27 ton	\$	30,000	4 mths	0.0 nos.	HK\$	-	
f. Fuel, Oil and gas for ditto	\$	2,500	4 mths	0.0 nos.	HK\$	-	
g. Small Tools	\$	4,000	16 mths	1.0 nos.	HK\$	64,000.00	
h. Maintenance	\$	2,000	16 mths	1.0 nos.	HK\$	32,000.00	
i. Mechanical Hardware	\$	-	16 mths	1.0 nos.	HK\$	-	
					Sub-Total :	HK\$	328,400.00



7. Plant

Grand Total : HK\$ 4,352,400.00

Average per month : HK\$272,025.00/mth

B. Automatic Material Hoist

Rate

a.	1	no(s). for each Tower Block	《 10	storeys &	11 mths	》 X 2 Tower				
- Set up and Dismantle (Rental)										
		> Initial set up & Erection		\$	29,000		1.0 nos.	2 Blk.(s)	HK\$	58,000.00
		> Purchase new material hoist		\$	70,000		0.0 nos.	2 Blk.(s)	HK\$	-
		> Test & Commissioning						2 Blk.(s)	Included	
		> Cable						2 Blk.(s)	Included	
		> Dismantle & Transportation		\$	34,000			2 Blk.(s)	HK\$	68,000.00
		> Enclosed by tarpaulin		\$	14,000		1.0 nos.	2 Blk.(s)	HK\$	28,000.00
- Running Cost										
		> Miscellenous and Maintenance		\$	15,000	11 mths	1.0 nos.	2 Blk.(s)	HK\$	330,000.00
		> Rental (Mast = 41m)		\$	30,000		0.0 nos.	2 Blk.(s)	HK\$	-
		> Climbing (at each 3 flrs = 2 times / Blk)		\$	5,000		0.0 nos.	2 Blk.(s)	HK\$	-
		> Test for Ditto							Included	
		steel passageway		\$	1,200	10 floor	1.0 nos.	2 Blk.(s)	HK\$	24,000.00
		Footing			Sum				HK\$	100,000.00

Sub-Total : HK\$ 608,000.00

b. Passanger Hoist

Rate

a.	0	no(s). for each Tower Block	《 10	storeys &	0 mths	》 X 1 Towers				
		- Erection and Dismantle		\$	400,000		1.0 nos.	0 Blk.(s)	HK\$	-
		- Rental		\$	50,000	12 mths	1.0 nos.	0 Blk.(s)	HK\$	-
		- Hoist Operator		\$	8,000	12 mths	1.0 nos.	0 Blk.(s)	HK\$	-



7. Plant

Grand Total : HK\$ 4,352,400.00
Average per month : HK\$ 272,025.00/mth

D. Tower Crane

Rate

a. 1 no(s). for each Tower Block

《 10 storeys & 10 mths 》

- Set up and Dismantle (Rental)

> Initial set up (Including Mobilization)	\$ 210,000	1.0 nos.	2 Blk(s).	HK\$ 420,000.00
> Foundation Support	\$ 170,000	1.0 nos.	2 Blk(s).	HK\$ 340,000.00
> Test			<0%>	Included
> Dismantle (Including Delivery off Site)	\$ 280,000	1.0 nos.	2 Blk(s).	HK\$ 560,000.00
> I-beam support frame <100%>	\$ 115,000	1.0 nos.	2 Blk(s).	HK\$ 230,000.00
- Running Cost				
> Rent	\$ 55,000	10 mths	1.0 nos.	2 Blk(s). HK\$ 1,100,000.00
> Tower Crane Operator	\$ 22,000	10 mths	1.0 nos.	2 Blk(s). HK\$ 440,000.00
> Miscellenous and Maintenance	\$ 5,000	10 mths	0.0 nos.	2 Blk(s). HK\$ -
> Climbing (1st time)	\$ 128,000	1.0 times	2 Blk(s).	HK\$ 256,000.00
> Climbing (2nd to end = 6 times / Blk)	\$ 35,000	1.0 times	2 Blk(s).	HK\$ 70,000.00
> Test for Ditto				Included

Sub-Total : HK\$ 3,416,000.00

E. Gondola

Rate

- Rental	\$ 1,800	0 mths	0.0 nos.	1 Blk(s).	HK\$ -
- Testing Certificate	\$ 900		0.0 nos.	1 Blk(s).	HK\$ -
- Install/Dismantle	\$ 900		0.0 nos.	1 Blk(s).	HK\$ -

Sub-Total : HK\$ -

8. Safety Management		PRE 8.210		Grand Total :		HK\$	2,260,200.00
				Average per month :		HK\$	141,262.50/mth
		Rate					
a. Safety Audit / Safety Review	(2 times / year)	\$	7,000	3.0 times		HK\$	21,000.00
b. Safety Officer (2nos. required in the Contract)		\$	28,000	16 mths	2.0 nos.	HK\$	896,000.00
c. Assistant Safety Officer		\$	18,000	16 mths	1.0 nos.	HK\$	288,000.00
d. General Labour							
- Tower Blocks		\$	15,000	16 mths	2.0 nos.	1 Blk(s). HK\$	480,000.00
e. Tools		\$	1,500	16 mths	1.0 nos.	<100%> HK\$	24,000.00
f. Safety materials for balcony and lift shaft 1000/lift shaft, etc.		\$	1,000	24 floor	4.0 nos.	1 Blk(s). HK\$	96,000.00
f. Safety Precautions							
- Extinguisher							
> Tower Block		\$	550	10.0 nos.	24.0 sty	HK\$	132,000.00
- Fire Pump with Pipe							
> Tower Block		\$	15,000	1.0 tower	0.0 nos.	HK\$	-
Str opgs & Main roof W/P		\$	5,000	2.0 nos.	24.0 nos.	HK\$	240,000.00
Allowance for MPF, Double Pay... etc.		For	Safety Officer Assistant Safety Officer	5%	HK\$		83,200.00

9. Environmental Management					Grand Total : HK\$		220,000.00
					Average per month : HK\$		13,750.00/mth
					Rate		
a. Dust Control						HK\$	50,000.00
b. Noise Control						HK\$	50,000.00
c. Site Drainage System							
- Dewatering						HK\$	50,000.00
- Temporary Channels & Drainage						HK\$	-
d. Vehicle Washing Bay	\$	70,000	1.0 nos.			HK\$	70,000.00
e. Wastewater Treatment System	\$	200,000	0.0 nos.	<100%>		HK\$	-

10. <u>Watchmen</u>					Grand Total : HK\$	665,500.00
					Average per month : HK\$	41,593.75/m th
					Rate	
a. Watchman (day and night)	\$	23,000	19 mths	1.5 nos.	HK\$	655,500.00
b. Guard House (Deliver from Godown)	\$	-		1.0 nos.	HK\$	-
c. Handkey Access Control System					HK\$	10,000.00
d. C C TV System						N/A

11. Site Accommodation for Contractor**Grand Total : HK\$ 702,400.00***Average per month : HK\$ 43,900.00/mth*

Rate

a. Initial Set Up

- Set up Site Office	\$	1,200	180.0 m2	HK\$	216,000.00
- Container Office (initial)	\$	1,200	3 mths 3 nos.	HK\$	10,800.00
- Delivery & collection charge	\$	1,200	2 trip 3 nos.	HK\$	7,200.00
- Container Office (Toilet)	\$	1,200	16 mths 1 nos.	HK\$	19,200.00
- Delivery & collection charge	\$	1,200	2 trip 1 nos.	HK\$	2,400.00
- Toilet accommodation (10+7WC, 12+7U, 9+7basin.)				HK\$	62,400.00
- Relocate site office				HK\$	50,000.00
- Other Equipment & Facilities					
> Air Conditioner	\$	4,000	10.0 nos.	HK\$	40,000.00
> Office Furniture and stationery	\$	5,000	16 mths	HK\$	80,000.00
> Computer System (Clerk-1, QS-1, SA-1, BS-1, PC -1)	\$	5,000	6.0 nos.	HK\$	30,000.00
> Photo Copy Machine	\$	8,000	1.0 nos.	HK\$	8,000.00
> Fax. Machine	\$	3,000	1.0 nos.	HK\$	3,000.00
> Tel. Handset	\$	600	8.0 nos.	HK\$	4,800.00
- off site yard incl. elect. & water	\$	10,000	0 mths	HK\$	-

11. Site Accommodation for Contractor					Grand Total : HK\$	702,400.00
					Average per month : HK\$	43,900.00/mth
					Rate	
b. Running Cost						
- Telephone Line & Fax line	\$	200	16 mths	6.0 nos.	HK\$	19,200.00
- Mobile Phone Monthly Charge	\$	200	0 mths	0.0 nos.	HK\$	-
- Pager to Site Staff						
> Site Agent	\$	120	0 mths	0.0 nos.	HK\$	-
> General Foreman	\$	120	0 mths	0.0 nos.	HK\$	-
- Radio Communication System						
> Site Agent	\$	500	16 mths	1.0 nos.	HK\$	8,000.00
> General Foreman	\$	500	16 mths	1.0 nos.	HK\$	8,000.00
> Foreman	\$	500	16 mths	2.0 nos.	HK\$	16,000.00
> Assistant Foreman	\$	500	16 mths	1.0 nos.	HK\$	8,000.00
> Project Co-ordinator	\$	500	16 mths	1.0 nos.	HK\$	8,000.00
> Watchman	\$	500	16 mths	1.0 nos.	HK\$	8,000.00
> Tower Crane (Tower Block)	\$	500	10 mths	1.0 nos.	1 Blk(s). HK\$	5,000.00
c. Dismantle and Reinstatement (allow lump sum)					HK\$	50,000.00
d. Portable Toilet						
	\$	1,200	16 mths	2.0 nos.	HK\$	38,400.00

12. Site Offices for Employer's Representatives

Grand Total : HK\$ 535,940.00

Average per month : HK\$ 33,496.25/mth

Rate

a. Initial Set Up

- Set Up Site Office	\$	1,200	140.0 m ²	HK\$	168,000.00
- Container Office (initial)	\$	1,200	2 mths 2 nos.	HK\$	4,800.00
- Delivery & collection charge	\$	1,200	2 trip 2 nos.	HK\$	4,800.00
- Container Office (Toilet)	\$	1,200	2 mths 2 nos.	HK\$	4,800.00
- Delivery & collection charge	\$	1,200	2 trip 2 nos.	HK\$	4,800.00
- Toilet accommodation (3+1WC , 2U, 3+1basin.)				HK\$	-
- Relocate site office			<allow>	HK\$	50,000.00

b. Dismantle and Reinstatement existing pavement(allow lump sum)

HK\$ -

c. Furniture & Equipment

- Air Conditioners	\$	4,000	12.0 nos.	HK\$	48,000.00
- Office Furniture and Stationary	\$	1,000	120.0 m ² <100%>	HK\$	120,000.00
- Photo Copy Machine	\$	6,500	1.0 nos. <100%>	HK\$	6,500.00
- Fax. Machine	\$	3,000	1.0 nos. <100%>	HK\$	3,000.00
- Computer System	\$	13,000	3.0 nos. <100%>	HK\$	39,000.00
- Radio Pager	\$	500	0.0 nos.	HK\$	-
- Mobile Phone	\$	3,000	3.0 nos.	HK\$	9,000.00
- Camera	\$	1,500	6.0 nos.	HK\$	9,000.00
- Tel. Handset	\$	600	2.0 nos.	HK\$	1,200.00

d. Running Cost

- Telephone Line & Fax Line & Modem	\$	200	16 mths 2.0 nos.	HK\$	6,400.00
- Radio Pager	\$	120	16 mths 2.0 nos.	HK\$	3,840.00
- Mobile Phone Monthly Charge	\$	500	16 mths 3.0 nos.	HK\$	24,000.00
- Camera	\$	300	16 mths 6.0 nos.	HK\$	28,800.00

13. Transportation

Grand Total : HK\$

-

Average per month : HK\$

-

Rate

a. Employer's Representatives' Transportation

- shuttle bus

- Contract Car

- Insurance and Liense Fee

- Mobile Phone

\$ 140,000

\$ 20,000

\$ 3,500

2.00 yrs.

0.0 nos.

0.0 nos.

0.0 nos.

HK\$

HK\$

HK\$

-

-

-

b. Running Cost

- Driver

- Fuel Consumption

- Tunnel Fee

- Mobile Phone Monthly Service

- Maintenance Fee

\$ 10,000

\$ 8,500

\$ 800

\$ 200

\$ 1,000

14 mths

14 mths

14 mths

14 mths

14 mths

0.0 nos.

0.0 nos.

0.0 nos.

0.0 nos.

0.0 nos.

HK\$

HK\$

HK\$

HK\$

HK\$

-

-

-

-

-

Allowance for MPF, Double Pay... ets.

13%

HK\$

-

14. <u>Entertainment & Other Expenses</u>				Grand Total : HK\$		384,000.00
				Average per month : HK\$		24,000.00/mth
			Rate			
a. Commencement x 1 ; Lunar New Year x 1 ; Lo Pan x 2 ; Finish x 1	\$	10,000		3.0 times	HK\$	30,000.00
b. Petty Cash	\$	6,000	16 mths		HK\$	96,000.00
c. Progress Photo	\$	500	16 mths		HK\$	8,000.00
d. Combined Services Dwg.					HK\$	150,000.00
e. As Built Drawing					HK\$	100,000.00

15. Hoarding					Grand Total : HK\$	65,000.00
					Average per month : HK\$	4,062.50/mth
					Rate	
> Catchfan	(Type 2)	\$	3,850	0.0 m	HK\$	-
> Catchfan	(Type 1)	\$	4,750	0.0 m	HK\$	-
> Hoarding maintenance and removal		\$	850	0.0 m	HK\$	-
> Additional 1 no. of Site Gantry		\$	25,000	1.0 nos.	HK\$	25,000.00
> Notice Board and Advertising						
- New Erect		\$	20,000	1.0 nos.	HK\$	20,000.00
banner		\$	20,000	1.0 nos.	HK\$	20,000.00
Typ4 covered walkway under footbridge construction		\$	10,000	0.0 m	HK\$	-
> Site Entrance Gate		\$	250,000	0.0 blk	HK\$	-

16. Scaffolding					Grand Total : HK\$		6,608,843.00
					Average per month : HK\$		413,052.69/mth
					Rate		
a.	1	no(s).	Tower Blocks		HK\$		-
			- Superstructure External - Double layer without safety net	\$ 34	160,000 m ²	1 Blk(s).	HK\$ 5,440,000.00
			- Nylon Mesh (Double Layer)	\$ 15	9,000 m ²	1 Blk(s).	HK\$ 135,000.00
			- Safety Catch Fence	\$ 165	1,800 m	1 Blk(s).	HK\$ 297,000.00
			- Safety Canopy at Hoist & Passenger Lift (6m x 6m)	\$ 5,000	1.0 nos.	1 Blk(s).	HK\$ 5,000.00
			- Bamboo Scaffolding in lift shaft	\$ 42	1,050 m ²	1.0 nos.	HK\$ 44,100.00
			- Ceiling	\$ 120	888 m ²	1.0 nos.	HK\$ 106,560.00
			- Timber board for working platform	\$ 95	800 m ²	1.0 nos.	HK\$ 76,000.00
			- Superstructure External - single layer without safety net	\$ 26	0 m ²	1 Blk(s).	HK\$ -
			- Temporary working platform				HK\$ 200,000.00
b.	Extra	propping	for transfer plate	\$ 230,000		0 Blk(s).	HK\$ -
c.	Temporary	gutter around perimeter of tower block		\$ 30,000		0 Blk(s).	HK\$ -
Allow	5%	Wastage					HK\$ 305,183.00



17. <u>Water</u>							Grand Total :	HK\$	401,280.00
							Average per month :	HK\$	25,080.00/mth
a. Initial Cost							Rate		
- Initial set up & maintenance								HK\$	200,000.00
- Water Meter - W.S.D.								Included	
- Water Tank & Pump							\$ 15,000	2 no	1 Blk.(s) HK\$ 30,000.00
- Vertical Pipe with Gate Valve							\$ 120	47.0 m	2 Blk.(s) HK\$ 11,280.00
(Tower Block)									
b. Running Cost							\$ 10,000	16 mths	HK\$ 160,000.00



18. Electricity							Grand Total : HK\$	3,321,000.00			
							Average per month : HK\$	207,562.50/mth			
							Rate				
a. Initial Cost											
- Allow for Generator-60KVA(3,000/M);125KVA(3,800/M);220KVA(4,800/M)					\$	4,800	5 mths	3.0 nos.	HK\$	72,000.00	
- Fuel, Oil and gas for ditto					\$	15,000	5 mths	3.0 nos.	HK\$	225,000.00	
- Main Switch Board									HK\$	200,000.00	
- Vertical Cable (400A x 1 cables x 2 sets)					Incl.	\$	800	47.0 m	2 Blk(s).	HK\$	75,200.00
- Temporary Lighting					\$	12,000		24.0 flrs.	1 Blk.(s)	HK\$	288,000.00
- Sub-Main Switch Board									HK\$	-	
- Temporary Transformer room/C LP cable									HK\$	200,000.00	
> Deposit for Lighting Co.										N/A	
b. Running Cost											
- Electrician					\$	15,000	16 mths	2.0 nos.	1 Blk.(s)	HK\$	480,000.00
- Riser					\$	3,400			2 Blk.(s)	HK\$	6,800.00
- Electricity Charges					\$	24,000	12 mths			HK\$	150,000.00
- Electricity for Bldg A (for Adjoining site) (Special Contract requirements)										HK\$	1,600,000.00
Allowance for MPF, Double Pay... ets.									5%	HK\$	24,000.00

19. Testing and Sample			Grand Total :	HK\$	120,000.00
			Average per month :	HK\$	7,500.00/m th
			Rate		
a. Testing				HK\$	100,000.00
b. C uring Tank, etc.			Included	HK\$	-
c. Samples submission		\$ 20,000		HK\$	20,000.00



20. Other Items		Grand Total : HK\$	-
		<i>Average per month : HK\$</i>	<i>-</i>
NIL			



Sample Case for Preliminaries Cost Build UP

Summary of Preliminaries Cost

Date : 20/01/11

Project Name: Construction of a Building Project

Original Contract Period : 445 days
Forecast Contract Period : 16 months
Engineer's Budget : \$475,000,000.00

Item	Descriptions	Amount
1	Bond	HK\$ 225,625.00
2	Site Management	HK\$ 6,504,000.00
3	Setting out	HK\$ 3,110,000.00
4	Insurances	HK\$ 7,125,000.00
5	Levies	HK\$ 3,372,500.00
6	Site Cleaning	HK\$ 4,662,940.00
7	Plant	HK\$ 4,352,400.00
8	Safety Management	HK\$ 2,260,200.00
9	Environmental Management	HK\$ 220,000.00
10	Watchmen	HK\$ 665,500.00
11	Site Accommodation for Contractor	HK\$ 702,400.00
12	Site Offices for Employer's Representatives	HK\$ 539,940.00
13	Transportation	HK\$ -
14	Entertainment and Other Expenses	HK\$ 384,000.00
15	Hoarding	HK\$ 65,000.00
16	Scaffolding	HK\$ 6,608,843.00
17	Water	HK\$ 401,280.00
18	Electricity	HK\$ 3,321,000.00
19	Testing and Sample	HK\$ 120,000.00
20	Other Items	N / A
Total for Preliminaries Cost		HK\$ 44,640,628.00

Average per month \$ 2,790,039/mth
% of Tender Sum 9%