

CHINA AND HONG KONG QUARTERLY CONSTRUCTION

COST REVIEW



Arcadis Asia Limited Arcadis Hong Kong Limited

Million

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2020 SECOND QUARTER

(III)



IINA AND HONG KONG MARKET OVERVIEW	3
RKET ANALYSIS	4
PROXIMATE BUILDING COSTS - HONG KONG	5
IILDING & BUILDING SERVICES PRICE INDEX - MAINLAND CHINA	6
NDER PRICE INDEX-HONG KONG	7
TERIALS - MAINLAND CHINA	
BOUR	10
OSS VALUE OF CONSTRUCTION WORK PERFORMED-MAINLAND C	CHINA 11
OSS VALUE OF CONSTRUCTION WORK PERFORMED - HONG KON	NG12
PROXIMATE BUILDING COSTS FOR MAJOR CITIES - ASIA	

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MARKET OVERVIEW

Hong Kong's economic activities remained in depression in the second quarter of 2020 due to global economic recession and instability. The prolonged COVID-19 pandemic continued to hit the global market. Construction industry of Hong Kong is still facing challenging times.

Construction workers bore the brunt of the global depression. According to the Census and Statistics Department, overall unemployment rate of construction workers in Hong Kong sharply increased to 11.2% in Q2 2020, the highest since mid-2009, while the same rate in the corresponding quarter of last year is 5% only. This indicates a concerning unemployment situation in the local construction industry although the government has provided incentive to employers to keep their workers through the one-off anti-epidemic fund.

However, looking to the whole industry, after a temporary pause of construction activities at the beginning of the year, the activity level of private sector has resumed in the second quarter of 2020. Moreover, up to July in the financial year of 2020/21, the Legislative Council approved \$92 billion Capital Works Reserve Fund for future public projects, which equals to 86% of the approved funding in the whole financial year of 2019/20, showing signs of more job opportunities to the industry.

MARKET MOVEMENT



Feb - Apr 20

846.5

Mar-May 20 155.7

per annum	(+) 0.4%	(-) 9.1%	(-) 9.0%
Inflation Rate (CPI)	Jun 18 - 19	Mar 19-20	Jun 19-20
per annum	(+) 3.3%	(+) 2.3%	(+) 0.7%



Indicator

Highways Material Index	Feb - Apr 19 860.0	Nov 19 - Jan 20 865.5	
Labour Wages Index	Mar - May 19 148.8	Dec 19 - Feb 20 154.4	

Indicator

output; new + A&A)



Tender Price Index (Arcadis)

Q2/19 1835

HK\$55.953 Bn

Q2/20

1775

QUARTERLY CONSTRUCTION COST REVIEW 3 SECOND QUARTER 2020

Q1/20

1785

HK\$65.057 Bn HK\$52.297 Bn





CHINA

China's economy bounced back from a 6.8 percent year-onyear contraction in the first quarter, to grow by 3.2 percent in the second quarter. Barring a resurgence of COVID-19, China's recoveryof economics is expected to be continue.

The real estate investment in Mainland China in the first 6 months of this year has been increased by (+)1.9% YOY, the sales of commercial buildings amounted had a decrease of (-)5.4% YOY, and the land sales area drops (-) 0.9% (according to National Bureau of Statistics (NBS).These datas presented an V-shaped recovery in real estate market.

In Q2 2020, construction wages remain stable. Comparing with last quarter, the average basic construction product costs fluctuated in price with rebar (-)2.4%, steel (+)0.4%, concrete (-)3.2% and cement (-)4.9%. However, the rebound of real estate in Q2, bought confidence to the construction market, the tender price recorded remain stable. The construction market price level is anticipated to remain stable or slightly growth in the second half year.

HONG KONG DECLINE IN ECONOMIC GROWTH

After experiencing the worst decline of (-)9.1% on record in the previous quarter, Hong Kong's Gross Domestic Product (GDP) shrank by 9.0% Year-on-Year (YoY) in the second quarter of 2020, indicating a continuous decline in the local economy. Overall Composite Consumer Price Index (CPI) further dropped to (+)0.7% in this quarter, the lowest since Q2 2017.

SUPPRESSED CONSTRUCTION ACTIVITIES

Overall gross value of construction works performed in Q1 2020 contracted by 6.5% YoY as a result of shrinkage in both public and private sectors. Decline with (-)9.5% and (-)7.8% YoY arose in public and private sectors respectively as well as negative QoQ movement. The private sector floor areas consented and commenced increased in this quarter, with marked rise of (+)104% and (+)83% QoQ as private building sector resumed from the very low workload in the previous quarter. The Tender Price Index (TPI) further dropped by 3.3% YoY in Q2 2020.

COST OF MATERIALS AND LABOUR

For material price, steel price kept slightly dropping in the recent three months between February and April 2020. Sand price had showed a continuous rise since Q4 2017 and started to drop since January 2020, however still at a high level. Cement price remained gradually increasing while prices of diesel and basic architectural products remained stable. Regarding the labour, overall labour wage index rose by 4.6% YoY and 0.8% QoQ in this quarter. Wages of carpenter and bar bender mildly dropped while wage of painter slightly increased in this quarter. Wages of general workers, welder, bricklayer, plumber and E&M fitters kept steadily rising.



APPROXIMATE BUILDING COSTS HONG KONG

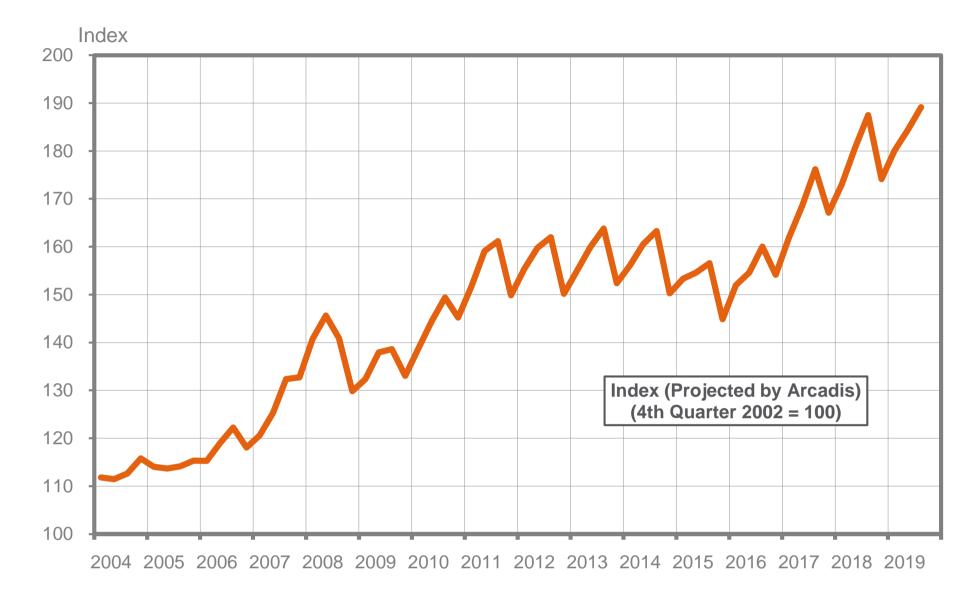
Notes:

- The cost for the respective categories given are averages based on fixed price competitive tenders. It must be understood that the actual cost of a building will depend upon the design and many other factors and may vary from the figures shown.
- 2. The cost per square metre are based on the Construction Floor Areas (CFA) measured to the outside face of the external walls/ external perimeter including lift shafts, stairwells, balconies, plant rooms, water tanks and the like.
- 3. All buildings are assumed to have no basements (except otherwise stated) and are built on flat ground, with normal soil and site conditions. The cost, excludes site formation works, external works, land cost, professional fees, finance and legal expenses.

BUILDING TYPE	HK\$/m2 CFA	OUTLINE SPECIFICATION
DOMESTIC		
Apartments, high rise, public authority standard	10,800 - 13,000	Apartment units with fit-out, based on Hong Kong Housing Authority Non-standard Cruciform Block design
Apartments, high rise, average standard	23,400-27,100	Apartment units with fit-out, including air-conditioning, kitchen cabinets and home appliances, but excluding decorative light fittings and loose furniture
Apartments, high rise, high end	30,300-35,300	Apartment units with good quality fit-out, including air- conditioning, kitchen cabinets and home appliances, but excluding decorative light fittings and loose furniture
Terraced houses, average standard	32,000-37,000	Houses with fit-out, including air-conditioning, kitchen cabinets and home appliances, but excluding decorative light fittings, loose furniture, garden and parking
Detached houses, high end	46,800 up	Houses with good quality fit-out, including air-conditioning, kitchen cabinets and home appliances, but excluding decorative light fittings, loose furniture, garden and parking
OFFICE / COMMERCIAL		
Medium/high rise offices, average standard	23,000-26,500	RC structure, curtain wall/window wall, including public area fit- out, tenant area with screeded floor, painted wall and ceiling
High rise offices, prestige quality	27,700-32,000	RC structure, curtain wall, including public area fit-out, tenant area with raised floor/carpet, painted wall and false ceiling
Out-of-town shopping centre, average standard	23,000-26,900	Including public area fit-out and M&E, but excluding shop fit-ou
Retail malls, high end	29,800-35,400	
INDUSTRIAL		
Owner operated factories, low rise, light weight industry	17,800-22,300	RC structure, including small office with simple fit-out and M&E but excluding a/c and heating
HOTEL		
Budget hotels - 3-star, mid market	29,400-31,300	
Business hotels - 4/5-star	30,500-35,500	 1) Interior decoration 2) Furniture (fixed and movable) 3) Special light fittings (chandeliers, etc.)
Luxury hotels - 5-star	35,500-40,800	4) Operating Supplies and Equipment (OS&E) excluded
OTHERS		
Underground/basement car parks (<3 levels)	25,000-30,000	RC structure
Multi storey car parks, above ground (<4 levels)	15,000-17,800	RC structure, natural ventilation, no facade enclosure
Schools (primary and secondary)	19,500-21,000	Public authority standard, including fit-out, no a/c, complete with basic external works but excluding educational equipment
Students' residences	22,300-25,200	Including fit-out, loose furniture and a/c
Sports clubs, multi purpose sports/ leisure centres (dry sports)	29,200-33,300	Dry sports (no swimming pool) and are for 'leisure centre' type schemes including main sports hall, ancillary sports facilities, changing and showers, restaurant / cafe, bar, etc. Costs include a/c, Furniture, Fittings and Equipment (FF&E)
General hospitals - public sector	37,200-41,300	Excluding medical and operating equipment

*The above cost are at 2nd Quarter 2020 levels.





BUILDING & BUILDING SERVICES PRICE INDEX										
Index	ex Published (by NBS of China) (Base: Corresponding Quarter in Preceding Year = 100) (see explanatory notes below)									
Quarter / Year	2016	2016 2017 2018 2019 2016 2017 2018 2								
1st Quarter	96.4	106.4	108.4	104.2	144.9	154.1	167.1	174.1		
2nd Quarter	99.1	106.5	106.9	104.1	152.0	161.8	173.0	180.1		
3rd Quarter	100.0	109.0	107.2	102.1	154.6 168.5 180.7 184.5					
4th Quarter	102.2	102.2 110.1 106.4 100.9 160.0 176.2 187.5 189.2								

Source : National Bureau of Statistics (NBS) of China

Notes:

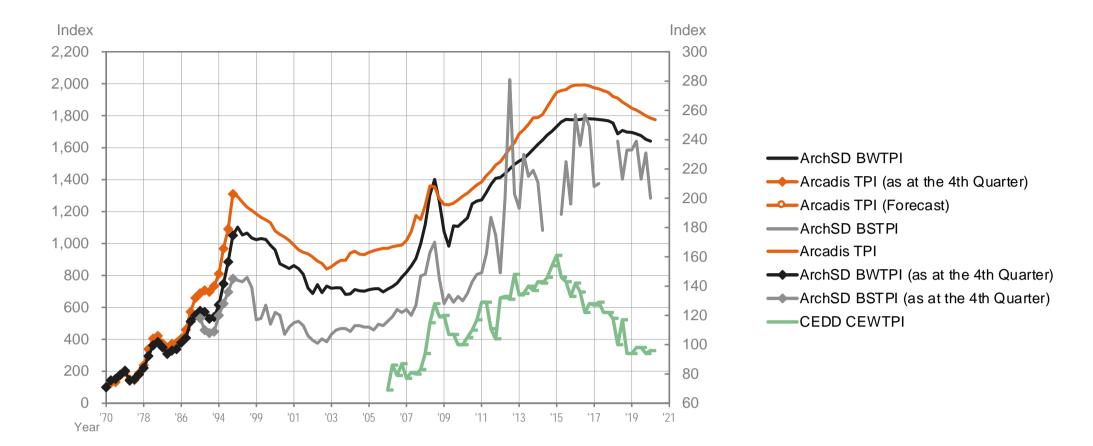
Data are published on a quarterly basis, measuring the year-on-year change in price level of each quarter, but the quarter-on-quarter change is not published, ie. the changes between consecutive quarters are not given.

To give an illustration of the price trend over time, Arcadis applies a hypothetical calculation to derive the data table and chart as above, basing on the following understanding and assumptions:

- 1. Only indices from 1st Quarter 2003 and onwards are published.
- 2. For 2002 and before, indices were only published annually. This annual index indicates that the average fluctuation of 2002 was moderate. Arcadis' own in-house data further substantiates that the construction costs in 2002 were rather stable throughout the year.
- 3. Changes between quarters in 2002 are assumed to be evenly distributed throughout the year. This establishes a notional relationship between the four quarters in 2002 and can be compared with the published data for 2003 to find their notional quarter-on-quarter changes.

4. For comparison purposes, 4th Quarter 2002 is referred to as base and the base index as 100.





Quarter/Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
ArchSD BWTPI (Base = 100, at Year 1970)										
1 st Quarter	1273	1414	1516	1621	1732	1775	1779	1755	1695	1641
2 nd Quarter	1320	1438	1532	1648	1761	1776	1776	1727	1686	
3 rd Quarter	1369	1467	1559	1679	1777	1783	1773	1708	1675	
4 th Quarter	1408	1496	1590	1703	1775	1781	1768	1698	1652	
			Arch	SD BSTPI (Ba	ase = 100, at	Year 1989)				
1 st Quarter	149	149	193	211	(N/A)	257	208	(N/A)	233	200
2 nd Quarter	162	200	230	178	189	236	210	258	239	
3 rd Quarter	187	281	215	(N/A)	225	257	(N/A)	247	213	
4 th Quarter	175	203	219	(N/A)	196	249	287	233	231	
			Arc	adis TPI (Bas	se = 100, at Y	′ear 1970)				
1 st Quarter	1385	1511	1688	1789	1946	1992	1975	1920	1848	1785
2 nd Quarter	1425	1552	1713	1808	1958	1992	1968	1910	1835	1775
3 rd Quarter	1452	1595	1747	1857	1963	1993	1957	1885	1818	
4 th Quarter	1491	1632	1786	1903	1984	1986	1946	1868	1800	
	°		CE	WTPI (Base	= 100, at Ye	ar 2010)				
1 st Quarter	129	132	134	143	161	142	127	118	94	96*
2 nd Quarter	129	133	135	142	146	136	129	100	98	
3 rd Quarter	111	131	140	146	143	122	122	117	98	
4 th Quarter	104	148	137	154	133	128	122	94	94	

Source : Competitive tenders received by Arcadis, Building Works Tender Price Index (BWTPI) and Building Services Tender Price Index (BSTPI) of Architectural Services Department (ArchSD) of HKSAR, and Civil Engineering Works Tender Price Index (CEWTPI) of Civil Engineering and Development Department (CEDD) of HKSAR

Notes :

1. [*] denotes forecast figures

- 2. Both BWTPI (ArchSD) and Arcadis TPI measure the trend of general builder's works only. Special works and Mechanical and Electrical Services would have to be considered separately.
- 3. All indices were published quarterly. For reference purpose, only indices from 1st quarter of 1998 and onwards are given in detail, whereas indices between year 1970 to 1997 are shown with their 4th Quarter figures.

QUARTERLY CONSTRUCTION COST REVIEW 7





CONSTRUCTION MATERIAL PRICE INDEX										
Index			NBS of China) onding Month Year = 100)		Projected (by Arcadis) (Base: 12/2006 = 100) (see explanatory notes below)					
Month / Year	2017	2018	2019	2020	2017	2018	2019	2020		
January	104.9	112.4	104.6	101.3	117.6	132.2	138.3	140.1		
February	105.4	111.9	104.6	101.6	116.6	130.4	136.4	138.6		
March	106.1	110.9	104.7	101.0	118.3	131.2	137.3	138.7		
April	106.8	110.0	105.0	99.2	118.0	129.8	136.3	135.2		
May	107.5	109.7	104.3	98.9	118.6	130.1	135.7	134.2		
June	107.8	109.7	103.6	98.9	119.2	130.7	135.5	134.0		
July	108.2	109.8	103.1		122.6	134.6	138.8			
August	108.0	109.7	102.7		121.0	132.8	136.4			
September	108.3	109.2	102.4		121.8	133.0	136.2			
October	108.6	108.5	102.1		119.8	130.0	132.7			
November	108.6	108.6 108.4 101.5 121.7 131.9 133.9								
December	111.3	106.1	101.2		126.7	134.5	136.1			

Source : National Bureau of Statistics (NBS) of China

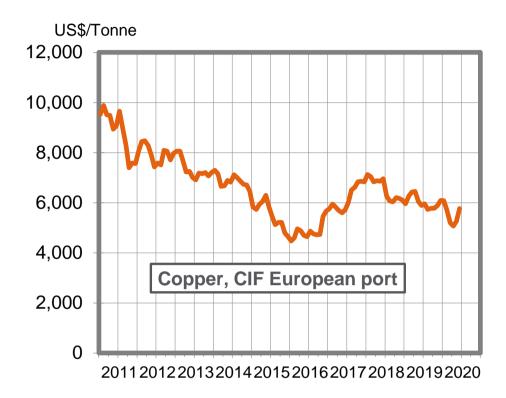
Notes:

Data are published on a monthly basis, measuring the year-on-year change in price level of each month, but the quarter-on-quarter change is not published, ie. the changes between consecutive quarters are not given.

To give an illustration of the price trend over time, Arcadis applies a hypothetical calculation to derive the data table and chart as above. For comparison purpose, December 2006 is referred to as base and the base index as 100.

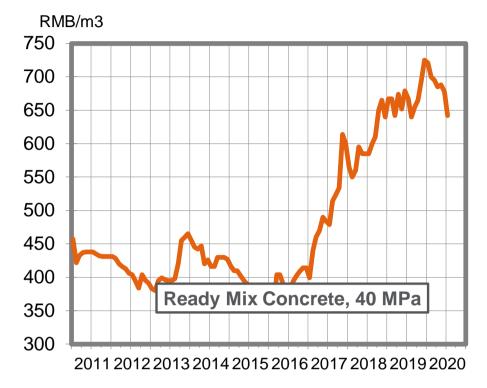


Basic Construction Materials

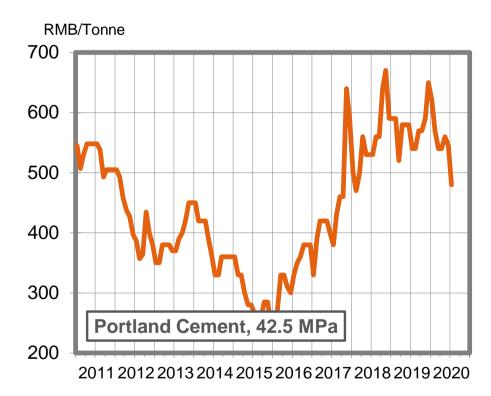




Source : London Metal Exchange



Shanghai Construction & Construction Material Industry Administration Department



Shanghai Construction & Construction Material

Industry Administration Department

Industry Administration Department

QUARTERLY CONSTRUCTION COST REVIEW 9

Shanghai Construction & Construction Material



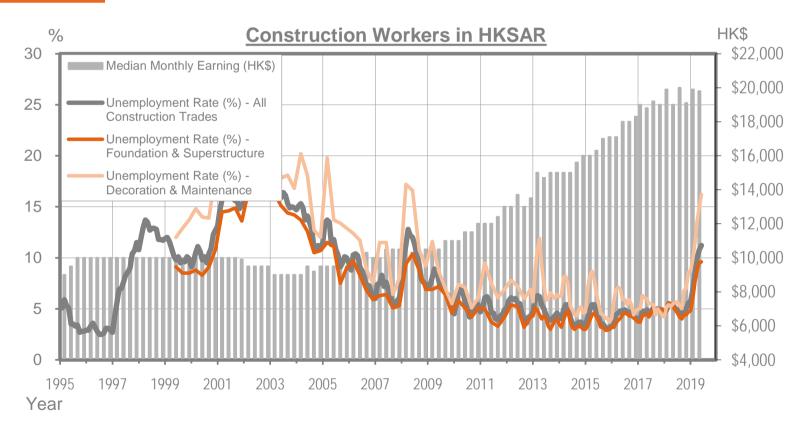
Mainland China

CONSTRUCTION LABOUR PRICES YEAR-ON-YEAR CHANGE							
Quarter / Year	2017	2018	2019				
1st Quarter	(+) 3.6%	(+) 3.5%	(+) 4.3%				
2nd Quarter	(+) 3.5%	(+) 4.6%	(+) 4.3%				
3rd Quarter	(+) 4.0%	(+) 4.8%	(+) 3.9%				
4th Quarter	(+) 4.5%	(+) 4.8%	(+) 3.2%				

Source : National Bureau of Statistics of China



Hong Kong



Age Group	No. of Workers Em by Construction Ir	
Age 15-29	75,320	16.5%
Age 30-39	81,818	17.9%
Age≥40	299,254	65.6%
Total (as at Aug 2018)	456,392	100.0%

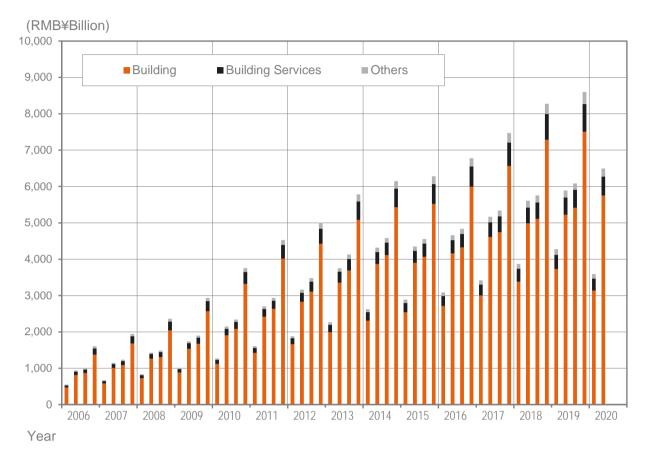
Source : Construction Industry Council

Age 15-29 16.5%
Age 30-39 17.9%
Age ≥ 40 65.6%

Age Distribution of Workers

7 GROSS VALUE OF CONSTRUCTION WORK PERFORMED

MAINLAND CHINA



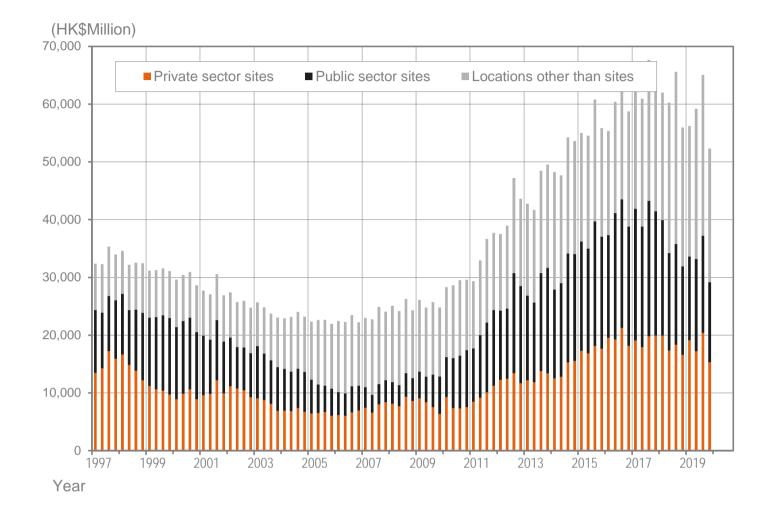
Quarter	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	A. Building									
1 st Quarter	1,422	1,661	1,994	2,311	2,544	2,712	3,003	3,382	3,727	3,138
2 nd Quarter	2,419	2,826	3,355	3,866	3,899	4,158	4,609	4,985	5,223	5,753
3 rd Quarter	2,634	3,111	3,687	4,113	4,068	4,322	4,742	5,106	5,414	
4 th Quarter	4,016	4,427	5,078	5,425	5,517	5,994	6,562	7,286	7,502	
Year Total:	10,490	12,025	14,115	15,714	16,028	17,186	18,916	20,759	21,867	8,891
	1		•	B. Buil	ding Service	S	•	2		
1 st Quarter	141	165	200	230	255	277	303	358	393	326
2 nd Quarter	214	251	300	333	331	366	405	438	476	523
3 rd Quarter	224	271	322	346	363	374	437	459	498	
4 th Quarter	378	413	514	517	548	561	646	708	768	
Year Total:	957	1,100	1,336	1,426	1,498	1,578	1,791	1,963	2,135	849
				C	C. Other					
1 st Quarter	47	57	69	83	91	96	113	129	155	127
2 nd Quarter	69	86	100	118	117	138	154	187	186	217
3 rd Quarter	77	97	123	126	126	137	160	189	173	
4 th Quarter	133	166	189	205	216	222	262	282	328	
Year Total:	326	406	481	531	550	593	689	787	843	344
			An	nual gross val	ue performed	(A + B + C)				
Total:	11,773	13,530	15,931	17,671	18,076	19,357	21,396	23,509	24,845	10,084

Source : National Bureau of Statistics of China

Notes :

- 1. Value of "Building" includes builder's works and building services systems.
- 2. Value of "Building Services" is for assembling and installation of equipment for industrial production, power, load-lifting, transportation, medical and laboratory uses, but excludes supply costs of such equipment.
- 3. Value of "Others" is generally maintenance and other miscellaneous construction activities.

GROSS VALUE OF CONSTRUCTION WORK PERFORMED HONG KONG



				Value perfo	rmed (HK\$ Mil	llion)				
Quarter	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
				A. Priva	te sector sit	es				
1 st Quarter	7,529	11,209	11,675	13,395	15,528	17,652	18,150	19,918	16,583	15,289*
2 nd Quarter	8,458	12,260	12,176	12,507	17,284	19,530	19,070	19,925	19,112	
3 rd Quarter	9,192	12,481	11,848	12,792	16,849	19,252	17,912	17,340	17,199	
4 th Quarter	10,102	13,411	13,781	15,259	18,119	21,231	19,813	18,369	20,393	
Year Total:	35,281	49,361	49,480	53,953	67,781	77,666	74,945	75,552	73,287	15,289*
				B. Publ	ic sector site	S				
1 st Quarter	9,880	13,168	16,829	18,258	18,531	19,414	20,639	21,533	15,338	13,881*
2 nd Quarter	9,263	12,023	14,690	15,397	18,964	17,780	22,827	20,002	14,512	
3 rd Quarter	10,814	12,137	13,792	16,253	18,163	21,878	20,934	16,888	16,022	
4 th Quarter	12,113	17,332	16,976	18,915	21,585	22,295	23,455	17,433	16,825	
Year Total:	42,070	54,660	62,287	68,823	77,242	81,367	87,855	75,856	62,697	13,881*
				C. Locatior	other than	sites				
1 st Quarter	12,172	13,347	15,140	17,909	19,549	18,809	19,963	22,871	24,032	23,127*
2 nd Quarter	11,620	13,245	15,914	20,327	18,744	18,041	20,657	22,073	22,592	
3 rd Quarter	12,953	14,358	16,038	18,636	19,520	19,274	22,093	26,027	25,992	
4 th Quarter	14,439	16,479	17,716	20,088	21,111	21,333	24,406	29,797	27,839	
Year Total:	51,184	57,429	64,808	76,961	78,924	77,458	87,119	100,768	100,455	23,127*
	• 	I 	An	nual gross val	ue performed ((A + B + C)	·	I	·	·
Total:	128,535	161,450	176,575	199,737	223,947	236,491	249,919	252,176	236,439	52,297*

*Provisional

Source : Census and Statistics Department, Hong Kong SAR

APPROXIMATE BUILDING COSTS FOR MAJOR CITIES ASIA

	Shanghai	Beijing	Guangzhou/ Shenzhen	Chongqing/ Chengdu	
BUILDING TYPE		RMB	/ m2 CFA		
DOMESTIC					
Apartments, high rise, average standard					
- Shell and core - Full fit	2,931 - 3,342 4,839 - 5,333	2,692 - 3,105 4,263 - 4,680	2,626 - 2,895 3,819 - 4,204	2,631 - 3,063 3,981 - 4,737	
Apartments, high rise, high end					
- Shell and core - Full fit	3,524 - 3,817 10,926 - 11,908	3,176 - 4,608 10,320 - 11,752	2,740 - 3,566 6,155 - 6,733	3,213 - 4,212 6,445 - 8,124	
Terraced houses, average standard - Shell and core - Full fit	3,313 - 3,526 N/A	3,108 - 3,630 6,097 - 6,610	2,783 - 3,065 N/A	3,238 - 3,905 N/A	
Detached houses, high end					
- Shell and core - Full fit	4,825 - 5,333 N/A	4,680 - 5,208 11,717 - 12,229	3,800 - 4,185 N/A	4,252 - 4,883 N/A	
OFFICE/COMMERCIAL					
Medium/high rise offices, average standard	6,147 - 8,125	5,959 - 8,025	5,339 - 5,909	6,321-7,314	
High rise offices, prestige quality	7,974 - 9,946	8,025 - 13,178	7,778-9,351	7,987 - 10,749	
Dut-of-town shopping centre, average standard	N/A	4,541 - 6,071	5,147 - 5,648	5,100-6,529	
Retail malls, high end	8,455 - 10,908	8,213 - 11,307	7,476 - 10,451	7,605 - 10,645	
NDUSTRIAL					
ndustrial units, shell only (Conventional single storey framed units)	1,914 - 2,340	1,878 - 2,288	3,415 - 3,759	3,106 - 3,911	
Owner operated factories, low rise, light weight ndustry	2,958 - 3,700	3,630-4,158	N/A	N/A	
HOTELS					
Budget hotels - 3-star, mid market	6,790 - 8,281	6,717 - 8,282	6,768 - 7,448	6,849 - 8,452	
Business hotels - 4/5-star	10,940 - 14,815	11,231 - 14,826	10,938 - 15,617	12,324 - 15,385	
Luxury hotels - 5-star	14,794 - 17,687	14,304 - 18,400	14,875 - 16,394	15,183 - 18,188	
OTHERS					
Underground/basement car parks (<3 levels)	5,073 - 7,072	5,188 - 5,702	3,525 - 5,634	3,016 - 4,238	
Yulti storey car parks, above ground (<4 levels)	2,600 - 3,630	3,122 - 3,157	2,522-2,776	2,399 - 2,961	
Schools (primary and secondary)	3,877 - 4,894	3,616 - 4,666	2,797 - 3,079	3,190 - 3,530	
Students' residences	2,839 - 3,870	2,559-3,616	1,814 - 2,041	N/A	
Sports clubs, multi purpose sports/leisure sentres (dry sports) with a/c and including FF&E	6,541 - 8,032	6,189 - 6,238	5,181-5,717	N/A	
General hospitals - public sector	9,992 - 12,884	8,136 - 10,187	N/A	N/A	

The above costs are at 2nd Quarter 2020 levels.

QUARTERLY CONSTRUCTION COST REVIEW 13

APPROXIMATE BUILDING COSTS FOR MAJOR CITIES

Hong Kong Macau Kuala Lumpur Singapore **BUILDING TYPE** DOMESTIC Apartments, high rise, average standard N/A 1,722 - 2,551 N/A N/A - Shell and core 3,019-3,497 2,217 - 2,712 1,310 - 1,455 290 - 565 \$ - Full fit Apartments, high rise, high end N/A - Shell and core 2,551-3,827 N/A N/A 3,910-4,555 3,097 - 4,731 2,020-2,980 680-1,330 - Full fit Terraced houses, average standard N/A 3,022 - 3,752 - Shell and core N/A N/A 4,129-4,774 3,778-4,508 1,700 - 1,880 210-335 \$\$ - Full fit Detached houses, high end N/A - Shell and core 3,653 - 5,263 N/A N/A 6,039 up 705 - 960 - Full fit 4,608 - 5,995 2,165-2,835 **OFFICE/COMMERCIAL** 550-725 \$\$\$ Medium/high rise offices, average standard 2,968-3,419* 2,551-3,294 1,700 - 1,880@ High rise offices, prestige quality 3,574-4,129 3,294 - 3,605 1,915 - 2,055@ 830-1,225 \$\$\$ 1,915 - 1,985 525 - 695 Out-of-town shopping centre, average standard 2,968-3,471 2,403 - 3,605 Retail malls, high end 3,845-4,568 3,778-4,558 2,020 - 2,200 650-975 **INDUSTRIAL** Industrial units, shell only (Conventional single N/A 745-910 305 - 420 N/A storey framed units) Owner operated factories, low rise, light weight N/A 410-510 2,297 - 2,877 N/A industry HOTELS Budget hotels - 3-star, mid market 3,794 - 4,039 3,356-3,802 2,130-2,305 975 - 1,365 Business hotels - 4/5-star 3,935-4,581 4,558-5,449 2,730-3,050 1,285 - 2,125

 OTHERS
 Junderground/basement car parks (<3 levels)</th>
 3,226 - 3,871
 1,994 - 2,923
 920 - 1,225
 300 - 520

5,449-6,441

2,730-3,050

1,855 - 2,380

4,581-5,265

Underground/basement car parks (<3 levels)	3,226 - 3,871	1,994 - 2,923	920 - 1,225	300 - 520
Multi storey car parks, above ground (<4 levels)	1,935 - 2,297	1,102 - 1,449	640-910@@	210-335
Schools (primary and secondary)	2,516-2,710*	2,205 - 2,551	N/A	240-300 \$\$\$\$
Students' residences	2,877 - 3,252	1,746 - 2,031	1,560 - 1,665	285-355 \$\$\$\$\$
Sports clubs, multi purpose sports/leisure centres (dry sports) with a/c and including FF&E	3,768 - 4,297	N/A	1,950 - 2,055	570-710
General hospitals - public sector	4,800 - 5,329	N/A	2,730-2,835	815 - 1,125

The above costs are at 2nd Quarter 2020 levels.

Luxury hotels - 5-star

APPROXIMATE BUILDING COSTS FOR MAJOR CITIES

Bangkok Bangalore Manila Ho Chi Minh **BUILDING TYPE** DOMESTIC Apartments, high rise, average standard - Shell and core 571-735 510-565 N/A N/A 580-665 979 - 1,376 639 - 792 784-931 - Full fit Apartments, high rise, high end - Shell and core 669 - 865 N/A N/A 745-890 - Full fit 1,045 - 1,290 1,302 - 2,304 813-932 875 - 1,055 Terraced houses, average standard - Shell and core 330-355 327 - 425 N/A N/A - Full fit 490 - 604 400-420 954 - 1,167 430 - 505 Detached houses, high end - Shell and core 571-816 440-465 N/A N/A 491 - 600 849 - 1,029 530-555 1,851-3,140 - Full fit **OFFICE/COMMERCIAL** Medium/high rise offices, average standard 784-931# 440-475 969 - 1,193 747 - 865 862 - 1,174 High rise offices, prestige quality 980-1,257 ## 550 - 580 1,402 - 1,729 Out-of-town shopping centre, average standard 669 - 865 425-465 824 - 1,026 N/A 898-947 698-914 Retail malls, high end 595 - 645 1,125 - 1,577 INDUSTRIAL Industrial units, shell only (Conventional single 522 - 653 345-400 549-614 307 - 386 storey framed units) Owner operated factories, low rise, light weight 347 - 457 N/A 365-425 738-922 industry HOTELS 825-910 Budget hotels - 3-star, mid market 1,225 - 1,355 1,231 - 1,372 1,386 - 1,695 Business hotels - 4/5-star 1,567 - 1,796 1,280 - 1,520 1,387 - 2,318 N/A 1,907 - 3,668 1,749-2,100 Luxury hotels - 5-star 1,829-2,123 1,620-1,775 **OTHERS** Underground/basement car parks (<3 levels) 634 - 757 588 - 784 290-315 508 - 759

Multi storey car parks, above ground (<4 levels)	196 - 320	230-250	489 - 691	408 - 447
Schools (primary and secondary)	N/A	290-325	722 - 995	536 - 585
Students' residences	N/A	315 - 345	764 - 980	536-688
Sports clubs, multi purpose sports/leisure centres (dry sports) with a/c and including FF&E	N/A	610-635	1,221 - 1,777	792 - 847
General hospitals - public sector	N/A	665 - 730	1,467 - 1,685	N/A

The above costs are at 2nd Quarter 2020 levels.

APPROXIMATE BUILDING COSTS FOR MAJOR CITIES ASIA

BUILDING TYPE	OUTLINE SPECIFICATION		
DOMESTIC			
Apartments, high rise, average standard	Shell and core, including finishes to public area, but <u>excluding</u> finishes to apartment units <u>Full fit</u> , with air-conditioning, kitchen cabinets and home appliances, but <u>excluding</u> decorative light fittings and loose furniture		
Apartments, high rise, high end	Shell and core, including finishes to public area, but <u>excluding</u> finishes to apartment units <u>Full fit</u> , good quality provisions, with air-conditioning, kitchen cabinets and home appliances, but <u>excluding</u> decorative light fittings and loose furniture		
Terraced houses, average standard	Shell and core, joined houses in row(s), <u>excluding</u> garden, parking, finishes and fittings to house interior Full fit, joined houses in row(s), with air-conditioning, kitchen cabinets and home appliances, but <u>excluding</u> decorative light fittings, loose furniture, garden and parking		
Detached houses, high end	Shell and core, good quality facade, <u>excluding</u> garden, parking, finishes and fit- tings to house interior <u>Full fit</u> , good quality provisions, with air-conditioning, kitchen cabinets and home appliances, but <u>excluding</u> decorative light fittings, loose furniture, garden and parking		
OFFICE / COMMERCIAL			
Medium/high rise offices, average standard	RC structure, curtain wall, including public area fit-out, tenant area with raised		
High rise offices, prestige quality	floor/ carpet, painted wall and false ceiling		
Out-of-town shopping centre, average standard	Including public area fit-out and M&E, but excluding shop fit-out		
Retail malls, high end			
INDUSTRIAL			
Industrial units, shell only (Conventional single storey framed unit)	RC structure with steel roof and M&E to main distribution, but excluding a/c, heating and lighting		
Owner operated factories, low rise, light weight industry	RC structure, including small office with simple fit-out and M&E, but <u>excluding</u> a/c and heating		
HOTEL			
Budget hotels - 3-star, mid market	1) Interior decoration		
Business hotels - 4/5-star	2) Furniture (fixed and movable)3) Special light fittings (chandeliers, etc.)		
Luxury hotels - 5-star	4) Operating Supplies and Equipment (OS&E) excluded		
OTHERS			
Underground/basement car parks (<3 levels)	RC structure		
Multi storey car parks, above ground (<4 levels)	RC structure, natural ventilation, no facade enclosure		
Schools (primary and secondary)	Including fit-out and a/c, but excluding educational equipment		
Students' residences	Including fit-out, loose furniture and a/c		
Sports clubs, multi purpose sports/leisure centres (dry sports)	Dry sports (no swimming pool) and are for 'leisure centre' type schemes including main sports hall, ancillary sports facilities, changing and showers, restaurant / cafe, bar, etc. Costs include a/c, Furniture, Fittings and Equipment (FF&E)		
General hospital - public sector	Excluding medical and operating equipment		

Notes .

- 1. The costs for the respective categories given above are averages based on fixed price competitive tenders. It must be understood that the actual cost of a building will depend upon the design and many other factors and may vary from the figures shown.
- 2. The costs per square metre are based on Construction Floor Areas (CFA) measured to the outside face of the external walls / external perimeter including lift shafts, stairwells, balconies, plant rooms, water tanks and the like.
- 3. All buildings are assumed to have no basements (except otherwise stated) and are built on flat ground, with normal soil and site conditions. The cost excludes site formation works, external works, land cost, professional fees, finance and legal expenses.
- 4. The standard for each category of building varies from region to region and do not necessarily follow that of each other.
- 5. "Shell and core" generally covers ONLY base building elements. "Shell" refers to overall structure and foundations, exterior walls, floors and roof, completing with common areas, staircases, lift shafts, service ducts and fire services systems to local statutory requirements. "Core" refers to fully-fitted public areas (like lobbies, corridors and lavatories) and M&E main plant and upfeed, with tenant or occupant areas unfurnished.
- 6. "Full fit" buildings should complete with all elements that allow the buildings to be ready for operation, including public and tenants' (or occupants') areas (i.e. with ALL finishes, fittings and M&E distributions).
- 7. Fluctuation in exchange rates may lead to changes in construction costs expressed in U.S. dollars.
- 8. Hong Kong: ** Public authority standard, no a/c and complete with basic external works Singapore: @ Excluding carpet @@ Open on all sides with parapet Kuala Lumpur \$ 6-12 units per floor, 46m2 - 83m2 per unit; excluding air-conditioning \$\$ Excluding air-conditioning, Kitchen cabinets and home appliances \$\$\$Exclude Tenant fit-out \$\$\$\$ Standard government provisions \$\$\$\$ University standard Bangkok # (i) Excluding raised floor/carpet and inter-tenancy partition (ii) Facade in windows and brick wall/pre-cast concrete panel ## Excluding raised floor/carpet and inter-tenancy partition



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