Corporate Presentation

Sep 2022

















CORPORATE PROFILE

SUNWAY CONSTRUCTION

- Incorporated in 1976 & commenced business in 1981
- First listing in year 1997 & delisted in year 2004
- Relisting under the construction sector of the Main Market of Bursa Malaysia on 28th July 2015
- Cumulative revenue since inception of more than RM40bil
- Market capitalization: Around RM2.0bil
 As of Sep 2022: Foreigners 3.36%; Non Bumi 44.21%; Bumi 52.43%
- Top external shareholders, as of Sep22:
 EPF 9.2%, Amanah Saham 7.2%, Great Eastern 4.1%, KWAP 1.4%, PNB 1.0%, AIA 1.0%





Tan Sri Dato Seri Dr Jeffrey Cheah

65.1%

Other shareholders

34.9%

SUNWAY®

54.4%

10.7%

SUNWAY ® CONSTRUCTION

Building Construction Services Civil/Infrastructure
Construction
Services

Foundation and Geotechnical Engineering Services Mechanical, Electrical and Plumbing Services Manufacturing and Sale of Precast Concrete Products

Sustainable Energy Services Public Financing Initiatives (PFI)

FULLY INTEGRATED BUSINESS MODEL





- Design and construction service provider specializing in Building Information Modeling System (BIM /VDC)
- International portfolio includes projects in Singapore, UAE and Trinidad and Tobago
- Special Purpose Building Projects include Kuala Lumpur Convention Centre, Pinewood Studio, Sunway Medical Centre, Monash University Campus M'sia; Sunway Shopping Mall; Putrajaya Govt Agency Offices; International School of Kuala Lumpur



- Roads, highways, airports, bridges and rail transportation infrastructure projects over the last 30 years
- Local Projects include Ipoh Airport, SILK, Maju Expressway, SKVE, MRT, LRT and BRT
- Overseas Projects include 7 completed highways and bridges in India and 2 new HAM project secured in FYE 2020



- Core services include piling solutions and earth retaining systems
- Services cover all types of buildings such as residential, commercial, institutional, purpose-built or specialty buildings, and civil/infrastructure construction projects.



Mechanical, Electrical and Plumbing Services

- Main services are categorised into mechanical, electrical, plumbing and specialised engineering solutions
- Services offered to both internal and external clients as part of integrated services and on stand alone basis



Sustainable Energy Services

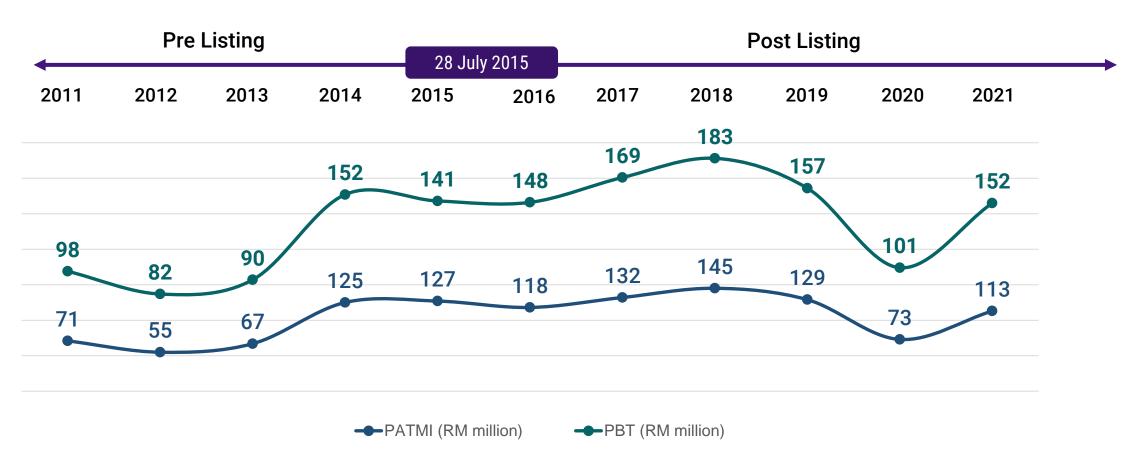
- Solar : Rooftop (Sunway projects) and large scale
- Gas District Cooling System (Putrajaya)
- Biomass system (BioExcel in Johor)
- LSS4 (EPC 2 x 50MW)
- JV with ENGIE for District Cooling Systems (DCS)



- Develops, designs, manufactures and supplies precast concrete products with manufacturing plants located in Iskandar and Senai, Johor, Malaysia
- Precast concrete products manufactured, include Industrialised Building System ("IBS") components, for residential, commercial and infrastructure development projects



	IPO (28.7.15)	29.12.17	31.12.18	31.12.19	31.12.20	31.3.21	30.6.21	30.9.21	31.12.21	31.03.22	30.06.22	30.09.22
Price (RM)	1.2	2.51	1.33	1.91	1.88	1.8	1.66	1.63	1.56	1.72	1.49	1.50
Market Cap	1.55b	>3.0b	1.7b	2.5b	2.4b	2.3b	2.2b	2.1b	2.0b	2.2b	2.0b	2.0b



2011 to 2014 figures as per prospectus and circular and 2016 to 2019 have been restated for MFRS 9

STRONG FINANCIAL PERFORMANCE



	2016	2017	2018	2019	2020	2021	1Q2022	2Q2022	3Q2022
	Restated	Restated	Restated	Audited	Audited	Audited	Unaudited	Unaudited	Unaudited
	RM mil	RM mil	RM mil	RM'mil	RM'mil	RM'mil	RM'mil	RM'mil	RM'mil
Revenue	1,788.8	2,076.3	2,256.8	1,768.7	1,552.6	1,729.0	624.7	557.9	469.3
PBT	148.0	168.7	182.7	157.4	101.5	152.2	47.2	43.0	37.6
PBT %	8.3%	8.1%	8.1%	8.9%	6.5%	8.8%	7.6%	7.7%	8.0%
PBT % - Construction	6.0%	7.3%	8.6%	9.6%	6.8%	9.3%	7.9%	7.9%	8.4%
PBT % - Precast	20.3%	19.0%	0.8%	1.9%	2.8%	2.8%	2.7%	5.4%	5.2%
PATMI	117.8	132.3	144.7	129.3	72.8	112.6	34.5	32.3	22.7
ROE (%)	26%	26%	26%	21%	12%	17%	N/A	N/A	N/A

Management's commitment is 35% of full year PATMI

Dividend for 2015: 4 cents or > 40% of full year PATMI

Dividend for 2016 : 5 cents or > 55% of full year restated PATMI

Dividend for 2017: 7 cents or > 68% of full year restated PATMI

Dividend for 2018 : 7 cents or > 62% of full year PATMI

Dividend for 2019: 7 cents or 70% of full year PATMI

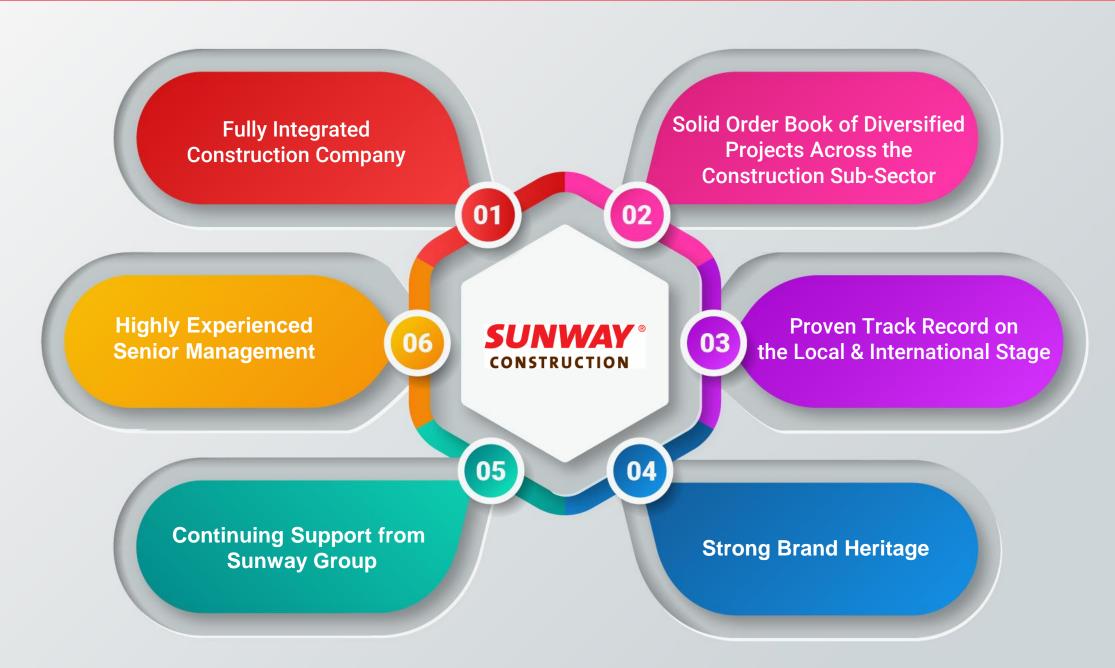
Dividend for 2020 : 4 cents or > 70% for full year PATMI

Dividend for 2021 : 5.25 cents > 60% for full year PATMI



	2014	2015	2016	2017	2018	2019	2020	2021
			Qualit	y				
QLASSIC - Construction	79.0%	75.3%	73.3%	77.2%	73.6%	75.0%	N/A	83%
CONQUAS - Precast	100%	100%	100%	100%	99.2%	N/A	N/A	N/A
Customer Satisfaction	75.6%	76.5%	74.3%	75.7%	77.6%	77.7%	96.1%	92.2%
ESH								
Work Man-Hours	16,376,137	14,676,640	16,918,924	18,790,437	20,242,286	16,611,284	14,723,472	17,869,038
Fatal Accident	2	2	2	-	-	1	2	-
			Employe	ees				
% Woman	15%	16%	15%	16%	14%	14%	16%	19%
Ratio Men: Women pay	0.97:1	0.97:1	0.98:1	0.97:1	0.96:1	1:0.93	0.99:1	1:0.91
Man day training/staff	3.23	3.6	2.7	1.2	2.8	3.4	2.0	2.23
Attrition	17%	14%	13%	13%	13%	11%	13%	14.6%



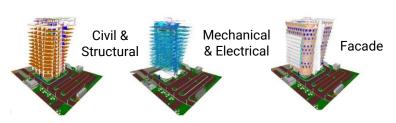




A Turnkey Contractor with a Full Range of Integrated Services & Products

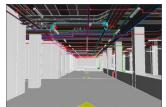


Range of Services Supported by Building Information Modelling, Large Asset Base & Best Practices



Building Information Modelling = Improved visualization for clash analysis







Large Asset Base Allows Us to Maximize Economies of Scale

- **26** Boring Rigs
- 25 Excavator
- 18 Tower Cranes
- 12 Backhoe
- 17 Mobile Cranes
- 10 Crawler Cranes
- **7** Skylift
- 45,000 m² System Formworks

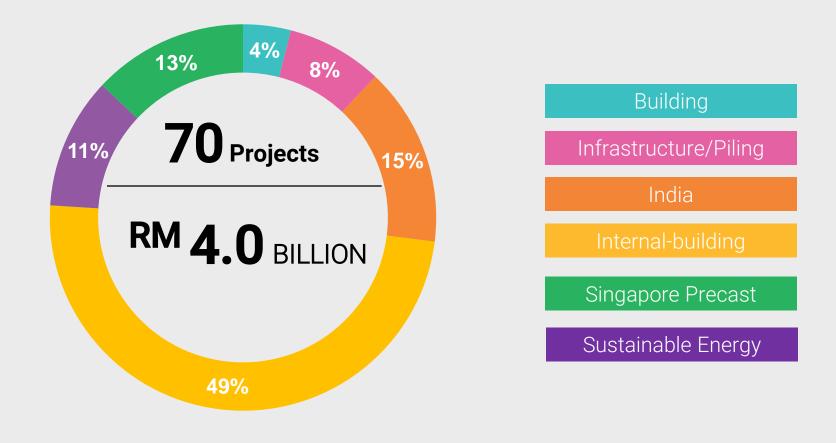




Maximizing Cost Savings and Improved Operating Efficiencies = Enhanced Profitability

- Quality Control
- Rationalising Functions
- Consolidating Management Funtions
- Maximise Economies of Scale





Target NEW order book → FYE 2022 : RM2b

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
New Order	1.5b	2.3b	1.8b	1.6b	4.0b	2.7b	2.6b	0.8b	2.9b	1.9b
Outstanding Order Book	4.8b	5.1b	5.2b	5.2b	6.6b	4.8b	3.8b	3.0b	3.2b	4.2b

INVESTMENT HIGHLIGHTS: 02 SOLID DIVERSIFIED ORDER BOOK



1,990 49%

AS AT SEPT-22 (RM MIL)	COMPLETION	CONTRACT SUM	O/S ORDERBOOK		AS AT SEPT-22 (RM MIL)	COMPLETION	CONTRACT SUM	O/S ORDERBOOK
BUILDING			146	4%	INTERNAL - SUNWAY GROUP			1,990
PUTRAJAYA PARCEL F	Maintenance	1,610	14		SMC 4 + VO	3Q 2023	612	175
TNB HQ CAMPUS (PH 2)	4Q 2022	781	53		SUNWAY SERENE	4Q 2022	413	14
PETRONAS LEADERSHIP CENTRE	Completed	305	23		SUNWAY BELFIELD	4Q 2024	403	311
IOI MALL (MEP)	4Q 2022	68	4		SUNWAY VELOCITY 2	4Q 2022	352	34
OXLEY TOWER (MEP)	4Q 2024	68	52		SOUTH QUAY CP2 -	3Q 2024	557	545
PNB118 PKG A&B (MEP)	3Q 2022	8	2		SUNWAY CARNIVAL MALL EXT.	1Q2023	286	6
INFRASTRUCTURE/PILING			330	8%	SUNWAY VELOCITY 2B	4Q 2023	253	196
LRT 3 : PACKAGE GS07-08	4Q 2022	1,295	73		SMC DAMANSARA	3Q 2023	240	202
SENTUL WEST MRTUG ST. (MEP)	4Q 2022	57	1		SMC SEBERANG JAYA	4Q 2022	196	6
JALAN TAMBUN, IPOH	4Q 2022	14	11		SMC IPOH	1Q 2024	150	64
BANGSAR RISING - PILING	4Q 2022	5	1		SW INTERNATIONAL SCHOOL (SIS)	4Q 2022	140	33
TASCO	3Q 2022	9	-	#	SOUTH QUAY CP2 - PILING	4Q 2022	198	2
LRT 3 : GS06 (Piling)	2Q 2022	1	-	#	SUNWAY VELOCITY 3C4	2Q 2023	100	40
RTS LINK PACKAGE P2A	2Q 2025	112	104		SUNWAY HOTEL RENOVATION	4Q 2022	81	5
KB - Kuala Krai BR1-BR7 (Piling)	4Q 2022	2	1		BIG BOX OFFICE	4Q 2022	51	8
LRT 3: GS06	3Q 2023	191	138		BUTTERWORTH-KULIM	4Q 2022	4	1
INDIA			606	15%	DRAINAGE WORKS	4Q 2022	1	1
THORAPALLI - JITTANDAHALLI (TJ)	4Q 2023	508	429		WELLNESS ROAD & DRAIN	4Q 2022	1	1
MEENSURUTTI - CHIDAMBARAN (MC	3Q 2023	315	178		SMC IPOH VO	1Q 2024	67	67
SUSTAINABLE ENERGY			438	11%	SW FLORA	4Q 2025	278	278
SOLAR - EXTERNAL	Various	414	395		GRAND TOTAL @ SEPT 2022		10,927	4,046
NEW ORDER 2022 - EXTERNAL	Various	38	37		RED: SECURED IN 2022		882	802
NEW ORDER 2022 - INTERNAL	Various	8	6		# Completion during the year			
SINGAPORE			535	13%				
PRECAST	Various	512	367					
NEW ORDER 2022 - EXTERNAL	Various	168	168					

SOLID DIVERSIFIED ORDER BOOK – DETAILED

Projects (2022 new awards)	Client	Duration	Contract Sum (RM'mil)
Hougang N1C14 - PPSC project (390DU)	Chang Hua Construction Pte Ltd	Feb 23-April 24	80.7
Fit-out works for Menara Merdeka 118 (Electrical) - Pkg A	Black Point Associates (M) Sdn Bhd	Dec21-Aug22	3.8
Fit-out works for Menara Merdeka 118 (Electrical) - Pkg B	D'Yakin Creation Sdn Bhd	Dec21-Aug22	3.8
TASCO (Piling)	Kajima (Malaysia) Sdn Bhd	Jan22-May22	8.7
Roof top Solar	Sunway Property & Facility Mgmt & Sunway Lagoon	Oct-22	7.8
RTS Link Package P2A (ICQ Complex) - Piling	Adil Permata Sdn Bhd	Jan 22-June 25	111.5
LRT3 GS06 (piling)	RKR Bina Sdn Bhd	31-Mar-22	1.2
Yishun N3C27 - PPVC	LBD Engineering Pte Ltd	Dec 22-Dec 24	47.1
Wellness Road & Drain	Sunway Resort Hotel & Spa	Mar22-Jun22	0.9
Secured in 1Q 2022			265.6
SMC Ipoh VO	Sunway Medical Centre Ipoh Sdn Bhd	Oct 21-Jan 24	67.0
Solar	Various	Various	2.9
CP2 District Cooling System (DCS)	Engie Services Malaysia Sdn Bhd	May22-Apr25	34.8
KB - Kuala Krai BR1-BR7 (Piling)	Asianmax Corporation Sdn Bhd	Aug22-Nov22	2.1
LRT3 GS06	Setia Utama LRT3 Sdn Bhd	Aug22-Sep22	190.7
Secured in 2Q 2022			297.5
Term Contract for Large Panel Slab (LPS) Batch 3	Housing & Development Board of Singapore (HDB)	Sept22-Mar25	40.7
2 blocks of 45/46 Storey Residential Condominium	Sunway Flora Sdn Bhd	Nov22-Oct25	278.0
Secured in 3Q 2022			318.7
TOTAL AS AT 3Q 2022			881.8

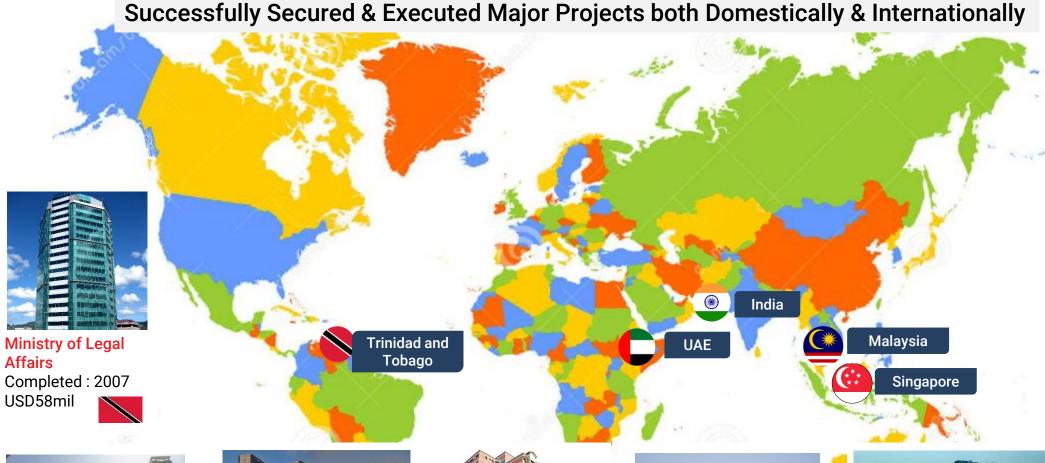
Target NEW order book → FYE 2022 : RM2b

New order

2021: 1.5b; **2020 :** 2.3b; **2019 :** 1.8b; **2018 :** 1.6b, **2017 :** 4.0b, **2016 :** 2.7b, **2015 :** 2.6b, **2014 :** 0.8b, **2013 :** 2.9b, **2012 :** 1.9b

Outstanding Order book

2021: 4.8b; 2020: 5.1b 2019: 5.2b; 2018: 5.2b, 2017: 6.6b, 2016: 4.8b, 2015: 3.8b, 2014: 3.0b, 2013: 3.2b, 2012: 4.1b





Parcel F, Putrajaya Completed: 2019 RM1,610mil



MRT Package V4, Klang Valley Completed: 2016 RM1,172mil



Al-Reem Island Phase 1, Plot 1 Completed: 2009

USD362mil



Rihan Heights
Phase 1A
Completed: 2010

USD510mil



HDB – Bukit Merah Completed : 2016 SGD31mil



East-West Corridor
Uttar Pradesh
Completed: 2008

US67mil



LRT Package B Completed: 2015 RM569mil



Kuala Lumpur Convention Centre Completed : 2005 RM549mil





Proven Capabilities

Which Led to an Established Multi-Award Winning Brand



2021

- Mechanical & Electrical Contractors award from MBAM
- MSOSH 2019 OSH Award (Gold 1 PNLC) (Gold 2 TNB Campus)
- MSWG ASEAN Corporate Governance 2020 Award (Industry Excellence)
- ARC Awards International Annual Report (Industry) Bronze
- The Edge Billion Ringgit Club Awards Construction Sector: Highest ROE Over Three years

2022

- Australasian Reporting Award (ARA) Silver Award
- International Annual Report Competition (ARC) Awards PDF version of Annual Report –
 Integrated AR & CSR Asia/Pacific: Traditional Format Bronze
- The Edge Billion Ringgit Club Awards Construction Sector: Highest ROE Over Three Years
- CIDB 5 Star SCORE Rating Sunway Construction Sdn Bhd



SG50 Prestige Enterprise Award 2015 / 2016



Singapore Successful Brand 2015



MCIEA Builder of The Year Award 2018, 2013, 2005 & 2003



MCIEA International Achievement Award 2012



Industry Excellence Awards 2010 – Export Excellence Award



MCIEA Project Award: Building-Major Scale – KL Convention Centre 2006



Sunway Group Strategic Relationship

SUNWAY®

- ✓ Major property developer in Malaysia. Revenue = 2021 : 0.6b (2020 : 0.5b; 2019 : 0.6b; 2018 : 0.6b 2017:0.9b, 2016:RM1.2b) from its property development divisions
- ✓ Total gross development value of remaining landbank (3,334 acres) Johor 49%, Klang Valley 27%, Penang 6%, Singapore 14%, Others 4% – RM59 bil (15 years)
- ✓ 2022 Launch Target: RM2.3b (2021: 3.2b; 2020:1.9b; 2019: 1.2b, 2018: 2.1b, 2017: 1.1b, 2016: 0.65b, 2015: 1.4 bil)
- ✓ Sales target 2022 : RM2.2b (2021 : 2.6b; 2020 : 1.3b; 2019 : 1.55b; 2018 : 1.7b; : RM2017 : 1.2b; 2016 : 1.2b, 2015 : 1.2b)
- ✓ At least 51% stake in SunCon Group post IPO

Our Key Developments with Sunway Group



Sunway Pyramid



Sunway Geo Suites



Sunway Carnival Mall



Sunway Serene, Kelana Jaya



Sunway Velocity Hospital



Sunway

Emerald Residence

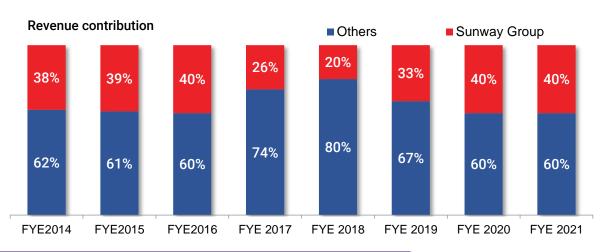
SUNWAY ® CONSTRUCTION



Bed rock orders even during a decline in the construction sector

- ✓ Competitive advantage in property development design optimization, assurance on quality & timeliness
- ✓ Portfolio of diversified services across the construction sub-sector

Sunway Group's Continued Support



Symbiotic Relationship with Sunway Group Provides Stability During Periods of Downturn





LIEW KOK WING

Designation

Group Managing Director
(Appointed w.e.f. 01.04.2022)

Years in SunCon Group: >20 years
Construction Industry Experience
Over 20 years



RICHARD WONG KWAN SONG

Designation
Group Deputy Managing Director
(Appointed w.e.f. 01.04.2022)

Years in SunCon Group: > 20 years
Construction Industry Experience
Over 30 years



ERIC TAN CHEE HIN

Designation
Group Deputy Managing Director
(Appointed w.e.f. 01.04.2022)

Years in SunCon Group: >20 years
Construction Industry Experience
Over 20 years



EVAN CHEAH YEAN SHIN
Designation
Non-Independent Non-Executive
Director
Years in SunCon Group: 20 years
Construction Industry Experience
Over 15 years



ELAINE LAI EE-LING

Designation
Chief Financial Officer
(Appointed w.e.f. 01.07.2022)

Years in SunCon Group: 11 years
Construction Industry Experience
Over 10 years



YIP LAI HUN

Designation
Director, Supply Chain &
Contracts Management

Years in SunCon Group: >25 years
Construction Industry Experience
Over 30 years



KWONG TZYY EN

Designation
Executive Director, Precast Division
Years in SunCon Group: > 20 years
Construction Industry Experience
Over 20 years



LIM VIN TZE

Designation
Executive Director, Operations
Years in SunCon Group: 17 years
Construction Industry Experience
Over 20 years



THOMAS SAMUEL

Designation
Director, Piling Division

Years in SunCon Group: Since 2015

Construction Industry Experience

Over 30 years

Extensive Industry Expertise and Strong Execution Capability with an Average of Over 22 Years of Experience in the Construction Industry



Fully integrated Construction Company

- Integrated business model providing end-to-end design and construction solutions
- VDC enabled
- · Focused on sustainability and renewable energy.
- · Well supported by investment in capex and assets previously

Solid Order Book

- Strong order book & tender book with diversified construction capabilities across various sub segments of the construction sector
- Proven Track Record in the Local & International Stage
- History of repeat order from reputable clients with high credit worthiness

Positioned for Growth

- The largest pure play listed construction company in Malaysia
- Top 3 construction group by turnover and profit
- Overseas venture to India (secured 2 HAM projects in FYE 2020)
- 12MP (2021 2025) Development Expenditure of 400b (11MP: 248.5b)
- Construction sector growth in 2022(F): 11.5%; 2021(E): 9.2%; 2020: -19.4%; 2019: 0.1% 2018: 4.2%; 2017: 6.7%; 2016: 7.4%; 2015: 8.2%
- Singapore Precast: Construction on ICPH plant is on-going (operational 2H 2022)

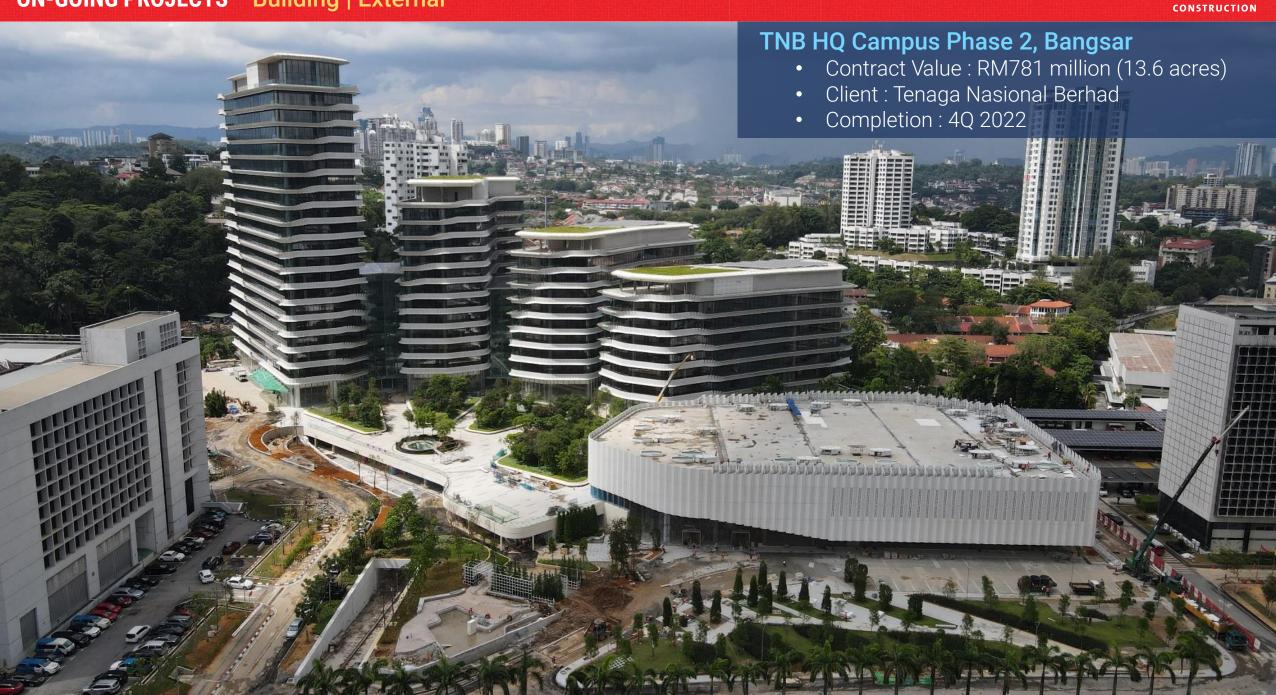
Continuing Support from Sunway Group

- At least 51% stake in SunCon Group post IPO
- Bed rock orders even during a decline in the construction sector (past years 40% revenue)
- Treasury support from Sunway Bhd

Financial

- High Return on Equity (2021: 17%) Best ROE for 3 consecutive years under construction sector awarded by The Edge Billion Ringgit Club
- Sound balance sheet with net cash position (after offsetting wholesale funds disclosed under investment in associate)
- 35% dividend policy (2018: 60%, 2019: 70%: 2020: 71%; 2021: 60%)

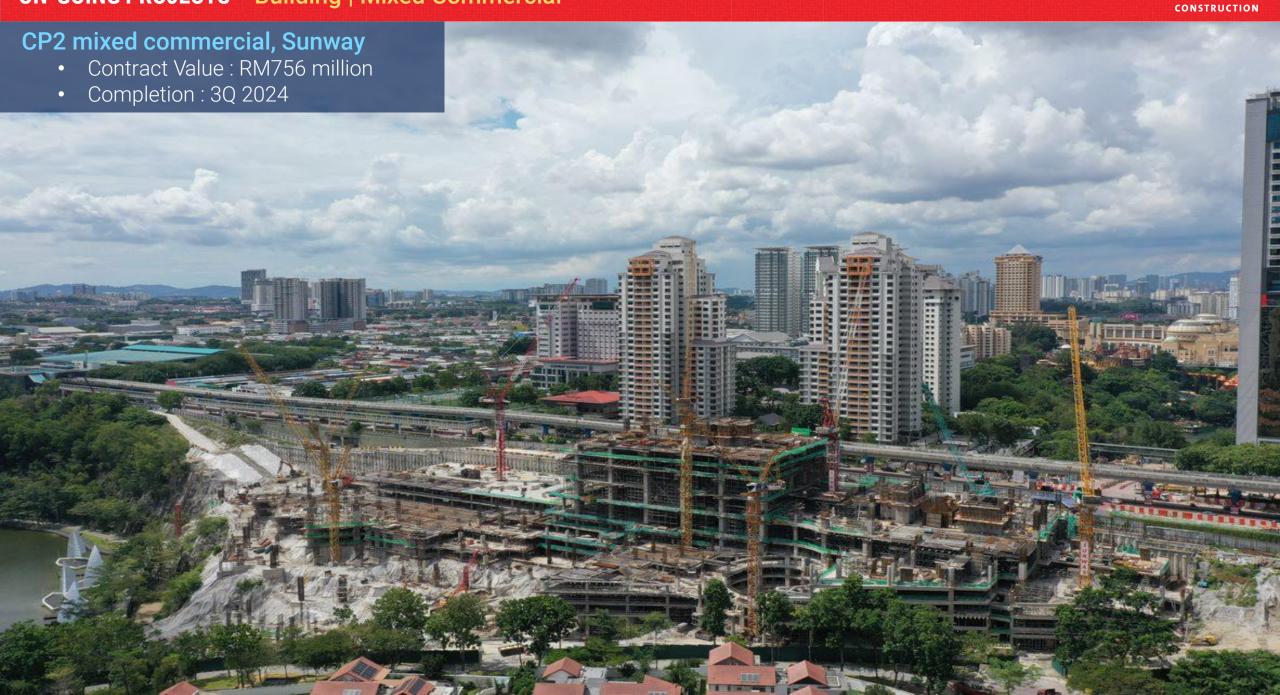




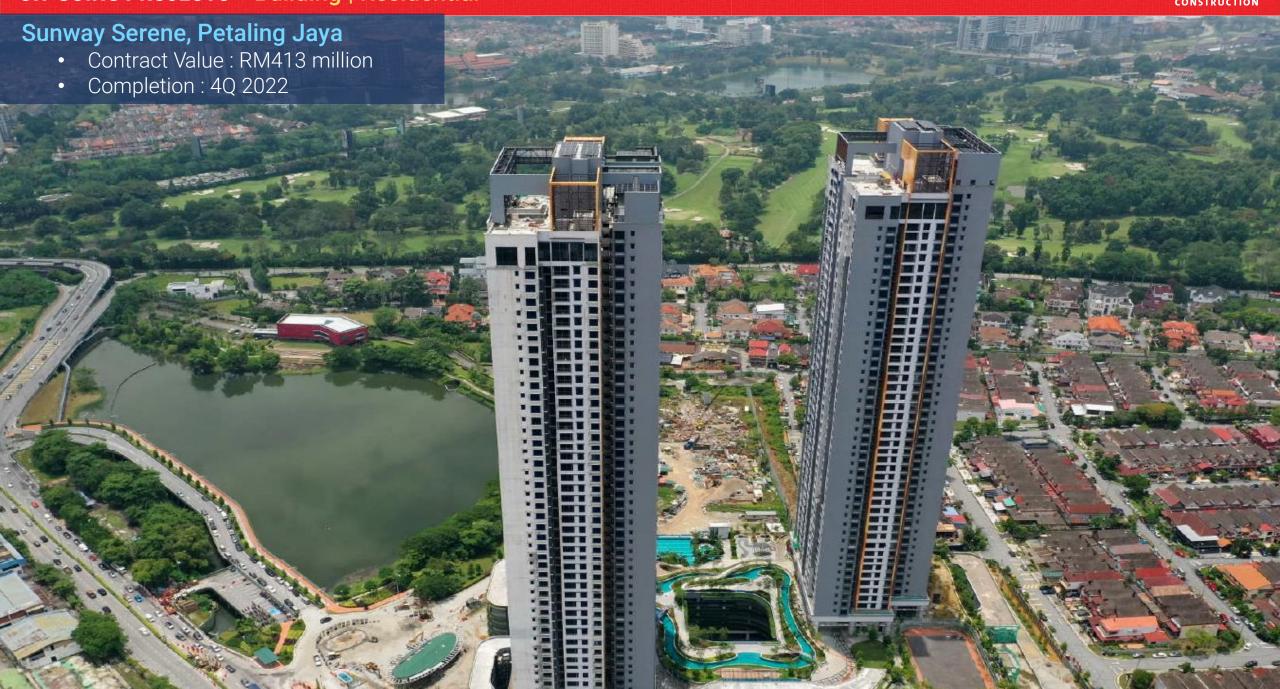
























Sunway Carnival Mall Extension

- Gross floor area to 1.45 million sq ft from the current 780,000 sq ft
- Net lettable area (NLA) from around 500,000 sq ft to 830,000 sq ft.

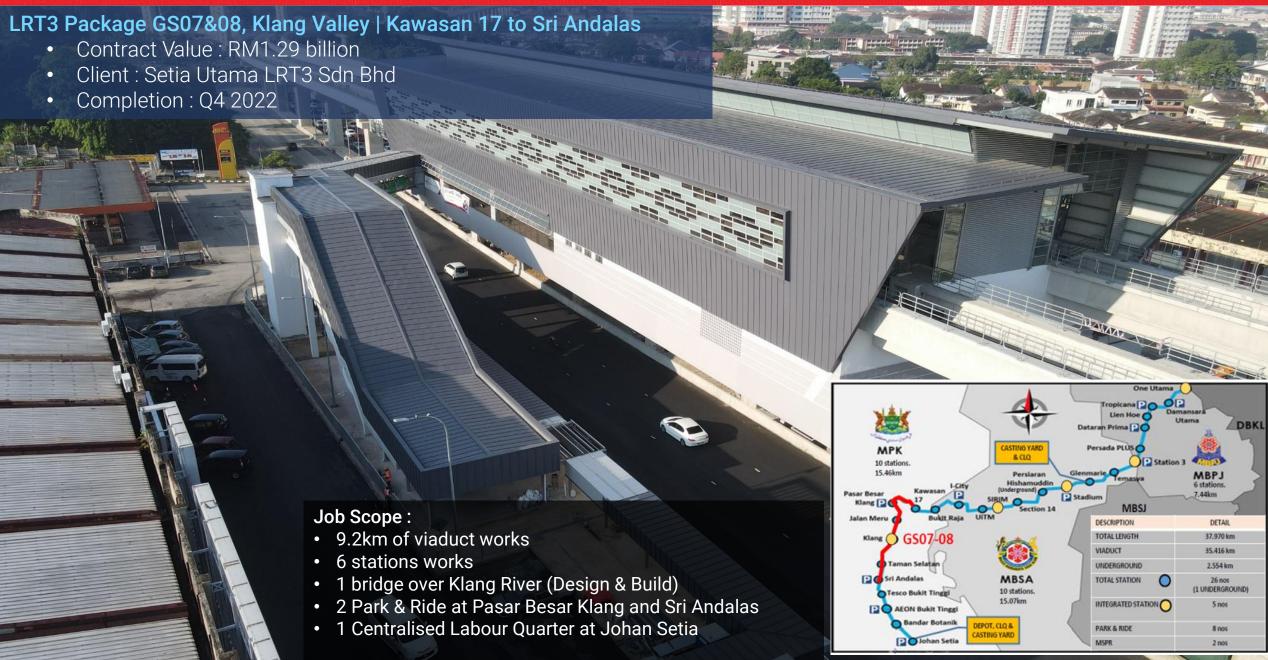
Completed in June 2022

Sunway Medical, Seberang Jaya

180-bed hospital with a six-bed intensive care unit

Opening 4Q 2022

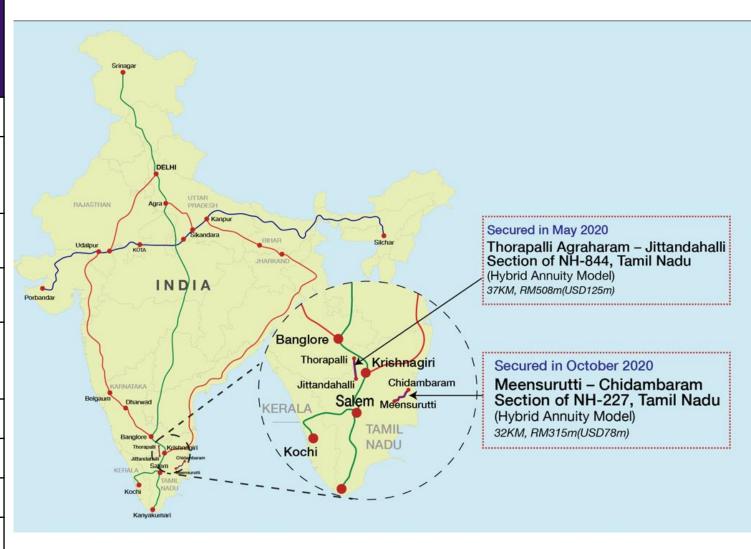




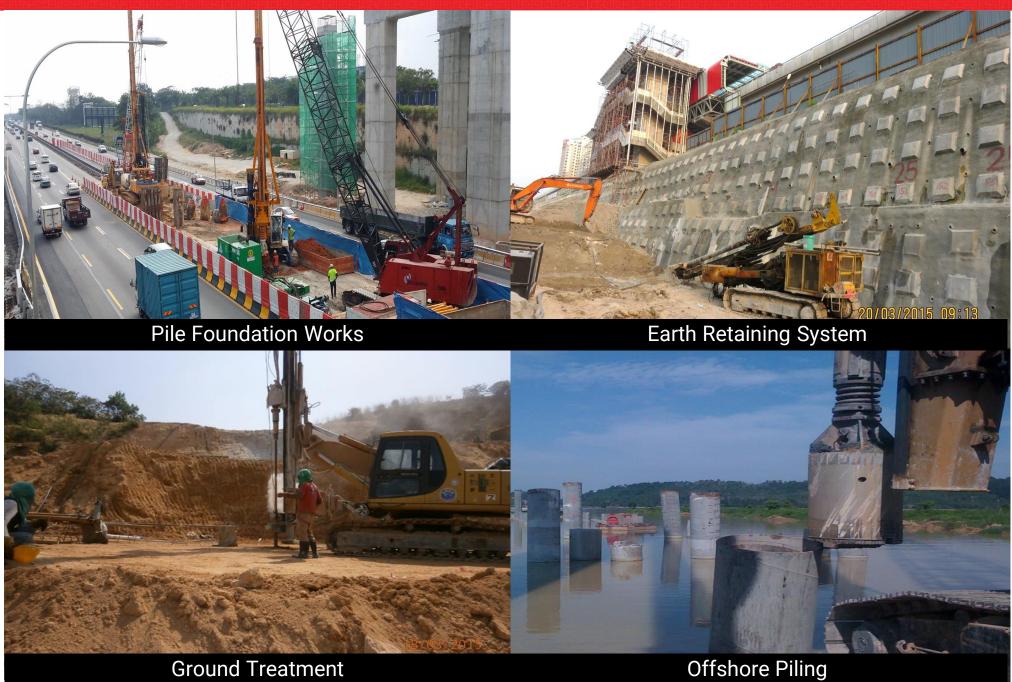


2 India Hybrid Annuity Model project secured in March & Oct 2020

	Thoropalli Jittandahalli	Meensurutti Chidambaram (Achieved Financial Closed on 10 May 2021)					
Contract Sum	864.5 crores	553.8 crores					
Maintenance per year (15 years)	7.08 crores	1.5 crores					
Construction years	2 years	2 years					
SunCon's portion	60%	60%					
Payment terms	40% during construction and 60% over 15 annuity years. NHAI will pay us interest on 60% at RBI rate + 3%						
Length	36.75 (4 lane)	31.53km (2 lane)					
State	Tamilnadu	Tamilnadu					
Start Date	7 Dec 2021	8 Aug 2021					
F	Financial Close @ May 2021						











Pinewood Movie Studio

Central Utilities Facilities

KLIA Chilled Water



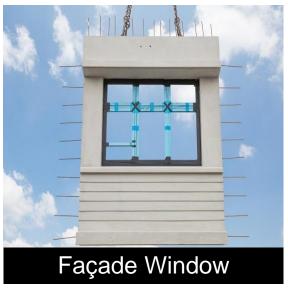


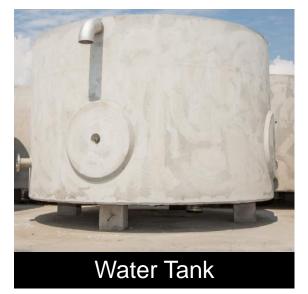
Gas District Cooling Plant - Putrajaya

Roof Top Solar – Sunway Iskandar













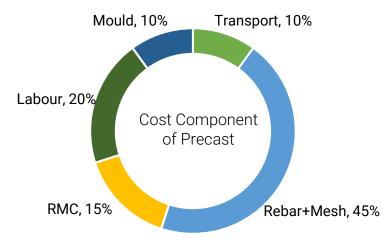












Plant	Area (sq. ft.)	Max Annual Capacity (m³)	Utilisation 2022 (%)	Utilisation 2021 (%)	Utilisation 2020 (%)	Utilisation 2019 (%)	No. of lines
Senai Plant (own)	Built up area : 262,231 Land area : 475,409	54,000	64%	48%	47%	46%	6+3 (half) lines
Iskandar Plant (rented)	Land area : 9 hectares	72,000	49%	41%	48%	72%	9 lines

HDB BTO Launch \Rightarrow 2022(F) = 23,000; (2021 = 17,109; 2019 : 14,591; 2018 : 15,811 2017 : 17,593; 2016 17,891; 2015 : 15,100 ; 2014 : 22,455)

Capacity building → ICPH (Integrated Construction Precast Hub) in Pulau Punggol Barat costing SGD80m during the 3 years construction period for a 30 years lease for a fully automated robotic precast plant (Target commissioning : Dec 2022)

PRECAST CONCRETE PRODUCTS – Opportunities In Singapore



SINGAPORE: By 2019, 35 per cent of newly launched housing board projects will be built using a method in which 3D modular units are manufactured and finished in factories, announced the Housing and Developing Board (HDB) in a news release on Wednesday (Sep 6).

The method, known as Prefabricated Prefinished Volumetric Construction (PPVC), is being piloted in Valley Spring @ Yishun. Construction for the 824 Build-to-Order (BTO) units began in March, and HDB said such technology will improve productivity and ensure greater quality control.

"Volumetric construction in a factory environment offers more uniform and better quality workmanship. The incidence of wet construction joints is also reduced, thereby improving the water tightness of wet areas," said HDB.

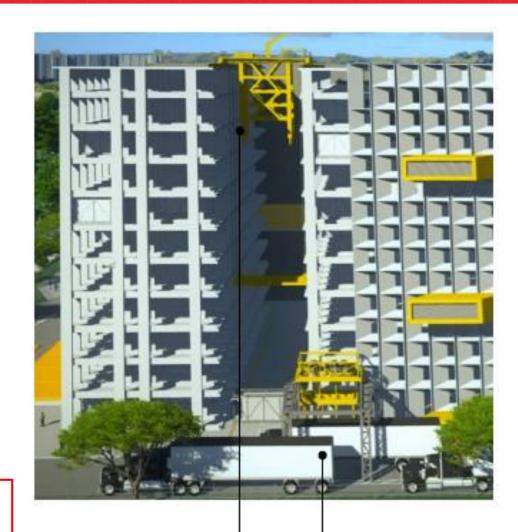
It added that with the finishes done in factories, there will be less noise and dust at the construction site. Fewer workers are also required on-site.

Apart from the PPVC method, HDB also announced that by 2019, all BTO flats will be fitted with bathroom units that are pre-assembled off-site, with finishes like copper piping, partial tiling, window frames and a waterproofing system.

The PPVC method will be 8 per cent costlier than conventional building methods, where workers hoist raw materials onto elevated blocks being built.

"These costs are expected to come down as the technology matures and the industry capacities and capabilities build up over time.

"The use of pre-fabricated bathroom units and PPVC methods will also translate to savings in terms of manpower," said the HDB.



LIFTING CRANE TRAILER DELIVERY



Singapore to spend \$139m promoting modular and digital construction

6 March 2020 | By Rod Sweet | 0 Comments



Singapore announced a range of measures this week to keep boosting construction productivity, including a S\$120m (US\$86.4m) fund to push modular techniques in new public-sector buildings, and S\$19m (US\$13.7m) to get SMEs using digital technologies.

The city state will also start cutting the number of foreign construction professionals firms can hire from next year, in order to boost home-grown talent.

Minister for National Development and Manpower, Zaqy Mohamad, told this year's Committee of Supply Debate that Singapore was on track to reach its 2020 target of 40% take-up of "design for manufacture and assembly" techniques, or DfMA, but wanted to reach 70% by 2025.

"This is an ambitious target but I think that we can achieve this by working together with the industry. We aim to make DfMA our default way of building," Mohamad said.

The S\$120m will be disbursed through Singapore's Public Sector Construction Productivity Fund (PSCPF), set up last year to promote DfMA techniques including prefabricated prefinished volumetric construction (PPVC), mass engineered timber, structural steel systems, and advanced precast concrete systems.

Singapore zeroed in on DfMA as a route to higher productivity in 2014, pouring S\$55m into a productivity fund, and commissioning a series of "integrated construction and precast hubs", which are highly-automated, multi-storey factories for producing precast concrete building elements and volumetric modules.

Digital push

This week Mohamad told his audience that Singapore's construction productivity had risen by more than 17% in the last decade.

The government sees digitalisation as an important way to make the industry more productive.



HDB construction productivity to improve 25 per cent by 2020

HDB to use prefabricated building methods in 35% of all its projects by 2019



Linette Heng

Ø Sep 07, 2017 06:00 am







Prefabricated bathrooms units (PBUs) of

better workmanship quality will be a feature of all newly launched Housing Board flats by 2019.

The Prefabricated Prefinished Volumetric
Construction (PPVC) method - which involves
constructing and assembling 3D modular units
with finishes in a factory before it is transported
to a construction site for installation - will also
be used in 35 per cent of all HDB projects by
that time.





Potential Risk	Potential Impact	Controls to Mitigate Risk
Fluctuation of material price	Steel bar price Dec'19: RM1,947 Mar'22: RM3,412 Dec'20: RM2,520 Jun'22: RM3,160 Dec'21: RM2,964 Sep'22: RM2,664 Bulk cement price Dec'19: RM222 Mar'22: RM307 Dec'20: RM214 Jun'22: RM329 Dec'21: RM275 Sep'22: RM296 Copper Dec'19: USD6,000 Mar'22: USD10,200 Dec'20: USD7,800 Jun'22: USD9,200 Dec'21: USD9,600 Sep'22: USD7,820	 Bulk locked-in steel rebar in advanced at lower prices or when price is favorable. Forward-looking steel rebar requirement (approximately 6 months in advanced). Managed to lock in at old price for most existing projects till completion.
Foreign currency fluctuation	Importation of solar panels, inverters, special lightings, furnishing & façade components	 FOREX hedging in advance once design and bill of quantity is confirmed. FOREX rates are fixed upfront at the contractual level.

MONTHLY AVERAGE FOR STEEL BAR (RM/MT)

