# **SUNVAY** ® CONSTRUCTION



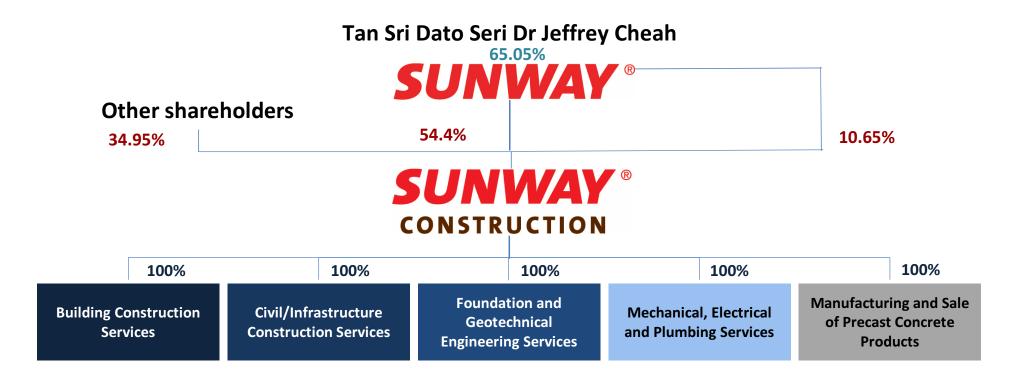
# **Corporate Presentation**

**Sept 2019** 



### **CORPORATE PROFILE**

- 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 28<sup>th</sup> July 2015
- Cumulative revenue since inception of RM27 bil
- Market capitalization: Around RM2.7bil (Sept 2019 : 3.2% Foreigner; 46.1% Bumi and 50.7% Non Bumi)
- Top external shareholders (EPF 8.3%, Amanah Saham 6.8%, Great Eastern, AIA, Kumpulan Wang Persara)





## **FULLY INTEGRATED BUSINESS MODEL**

Building Construction Services Civil/Infrastructure
Construction Services

Foundation and Geotechnical Engineering Services

Mechanical, Electrical and Plumbing Services

Manufacturing and Sale of Precast Concrete Products



- Design and construction service provider in the residential, commercial, institutional and specialty projects
- International portfolio includes several large building construction services 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 Malaysia; Sunway Shopping Mall



- Major provider of civil/infrastructure construction services and have participated in various roads, highways, airports, bridges and rail transportation infrastructure projects over the last 30 years
- Local Projects include Ipoh Airport, SILK, Maju Expressway, SKVE and special rail transportation infrastructure like MRT, LRT and BRT
- Overseas Projects include 7 highways and bridges in India



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



- 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

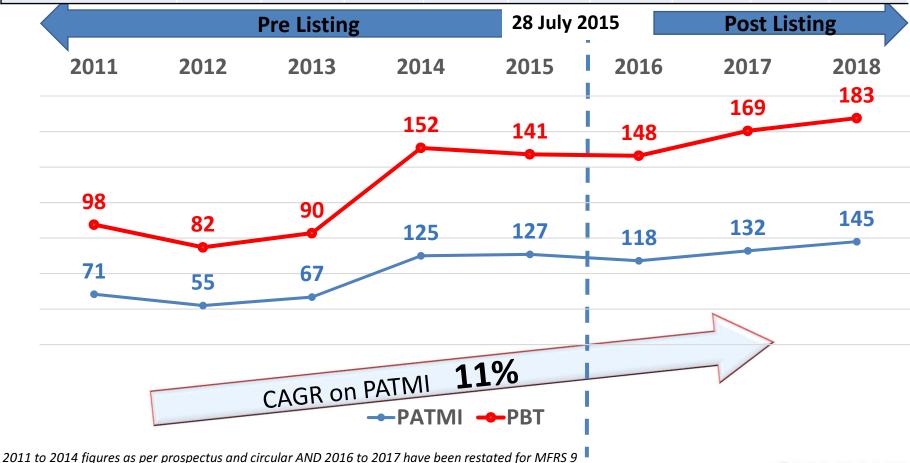


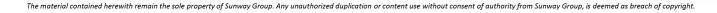
- Develops, designs, manufactures and supplies precast concrete products with manufacturing plants located in Iskandar and Senai, Johor, Malaysia
- Precast concrete products manufactured, include Industrialised Building System ("IBS") components, for residential, commercial and infrastructure development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



## PROVEN TRACK RECORD

|                          | IPO<br>(28.7.15) | 29.12.17 | 30.3.18 | 30.6.18<br>Post GE14 | 28.9.18 | 31.12.18 | 29.3.19 | 28.6.19 | 30.9.19 |
|--------------------------|------------------|----------|---------|----------------------|---------|----------|---------|---------|---------|
| Price (RM)               | 1.20             | 2.51     | 2.06    | 1.81                 | 1.82    | 1.33     | 1.91    | 2.01    | 2.05    |
| Market<br>Capitalisation | 1.55b            | >3.0 b   | 2.66b   | 2.34b                | 2.35b   | 1.72b    | 2.47b   | 2.6b    | 2.7b    |







## STRONG FINANCIAL PERFORMANCE

|                    | 2013<br>Audited*<br>RM mil | 2014<br>Audited*<br>RM mil | 2015<br>Audited<br>RM mil | 2016<br>Restated<br>RM mil | 2017<br>Restated<br>RM mil |         |       | 2Q 19<br>Unaudited<br>RM mil |       |
|--------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------|-------|------------------------------|-------|
| Revenue            | 1,839.6                    | 1,880.7                    | 1,916.9                   | 1,788.8                    | 2,076.3                    | 2,256.8 | 440.0 | 440.2                        | 402.6 |
| <b>EBITDA</b>      | 130.6                      | 192.2                      | 178.2                     | 182.6                      | 196.9                      | 222.6   | 48.3  | 53.9                         | 45.6  |
| PBT                | 89.8                       | 152.3                      | 140.8                     | 148.0                      | 168.7                      | 182.7   | 40.1  | 41.2                         | 35.6  |
| PBT %              | 4.9%                       | 8.1%                       | 7.3%                      | 8.3%                       | 8.1%                       | 8.1%    | 9.2%  | 9.4%                         | 8.8%  |
| PBT % -<br>Con     | 2.5%                       | 3.2%                       | 3.8%                      | 6.0%                       | 7.3%                       | 8.6%    | 9.9%  | 10.2%                        | 9.7%  |
| PBT % -<br>Precast | 21.6%                      | 39.1%                      | 30.4%                     | 20.3%                      | 19.0%                      | 0.8%    | 0.3%  | 0.2%                         | 0.5%  |
| PATMI              | 66.9                       | 124.8                      | 127.2                     | 117.8                      | 132.3                      | 144.7   | 31.0  | 33.2                         | 33.5  |
| <b>ROE (%)</b>     | 11.0%                      | 16%                        | 31%                       | 26%                        | 26%                        | 26%     | 20%   | 21%                          | 24%   |

#### 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



## **SOUND BALANCE SHEET**

|                            | 2013    | 2014            | 2015              | 2016               | 2017            | 2018    | 1Q 19            | 2Q 19   | 3Q 19   |
|----------------------------|---------|-----------------|-------------------|--------------------|-----------------|---------|------------------|---------|---------|
|                            |         | Audited* RM mil | Audited<br>RM mil | Restated<br>RM mil | Restated RM mil |         | Unaudited RM mil |         |         |
| Shareholders'<br>Fund      | 609.7   | 328.3           | 451.7             | 488.5              | 544.0           | 591.7   | 620.8            | 603.3   | 591.9   |
| Total assets               | 1,441.9 | 1,272.2         | 1,397.4           | 1,475.8            | 1,810.2         | 1,768.0 | 1,841.9          | 1,996.6 | 1,812.6 |
| Bank<br>borrowings         | 90.5    | 135.2           | 136.8             | 136.5              | 134.7           | 113.6   | 174.8            | 213.9   | 223.3   |
| In-house<br>advance        |         | 1.1             | 21.9              | 56.9               | 131.5           | 96.3    | 115.2            | 151.8   | 86.4    |
| Cash +<br>Placement        | 156.1   | 291.6           | 468.5             | 465.8              | 487.2           | 484.9   | 579.5            | 623.8   | 523.2   |
| Net Gearing Ratio(times)** | N/A     | N/A             | N/A               | N/A                | N/A             | N/A     | N/A              | N/A     | N/A     |

Note: To be read in conjunction with our Combined Audited Accounts.



<sup>\*</sup>As per prospectus

<sup>\*\*</sup>Net Gearing Ratio = Net debt / Shareholders' Funds

## NON FINANCIAL INDICATORS

|                                 | 2014       | 2015       | 2016       | 2017       | 2018       |
|---------------------------------|------------|------------|------------|------------|------------|
| <b>Quality</b>                  |            |            |            |            |            |
| QLASSIC-construction            | 79%        | 75.3%      | 73.3%      | 77.2%      | 73.6%      |
| CONQUAS-precast                 | 100%       | 100%       | 100%       | 100%       | 99.2%      |
| <b>Customer Satisfaction</b>    | 75.6%      | 76.5%      | 74.3%      | 75.7%      | 77.6%      |
| <u>ESH</u>                      |            |            |            |            |            |
| Work Man-Hours                  | 16,376,137 | 14,676,640 | 16,918,924 | 18,790,437 | 20,242,286 |
| Fatal Accident                  | 2          | 2          | 2          | -          | -          |
| <b>Environmental Inspection</b> | 71%        | 74.44%     | 80.41%     | 83.6%      | 84.5%      |
| FTSE4Good Inclusion             | <b>√</b>   | ✓          | ✓          | ✓          | <b>✓</b>   |
| <u>Employees</u>                |            |            |            |            |            |
| % Woman                         | 15%        | 16%        | 15%        | 23%        | 27%        |
| Ratio Men: Women pay            | 0.97:1     | 0.97:1     | 0.98:1     | 0.97:1     | 0.96:1     |
| Man day training/employee       | 3.23       | 3.6        | 2.7        | 1.2        | 2.8        |
| Attrition                       | 17%        | 14%        | 13%        | 13%        | 13%        |



## **INVESTMENT HIGHLIGHTS**

**Solid Order Book of Diversified Fully Integrated Construction Projects Across the Construction Company Sub-Sector** 6 3 **Proven Track Record on Highly Experienced** the Local & International **SUNWAY® Senior Management** Stage CONSTRUCTION 5 **Continuing Support from Strong Brand Heritage Sunway Group** 

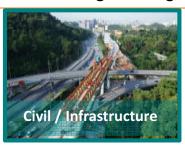


## 1

## **FULLY INTEGRATED COMPANY**

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









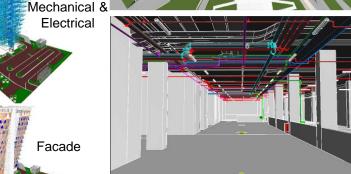


Range of Services Supported by Building Information Modelling, Large Asset Base & Best Practices

Building Information Modelling = Improved visualization for clash analysis







Large Asset Base Allows Us to Maximize Economies of Scale

33 Boring Rigs

**19 Tower Cranes** 

**5 Launching Girders** 

**13 Crawler Cranes** 

17 Mobile Cranes

**5 Passenger Hoist** 

27 Excavators

7 Skylift

50,000 M<sup>2</sup> System Formworks

Maximizing Cost Savings and Improved Operating Efficiencies = Enhanced Profitability

**Quality Control** 

Rationalizing Functions

Consolidating Management Functions Maximise Economies of Scale

Well Positioned to Bid for and Undertake Large and Complex Projects Both Domestically & Internationally to Diversify Risk and Ensure Sustainable Development



## 2 SOLID DIVERSIFIED ORDER BOOK

| As at Sept 2019<br>(RM mil)   | Completion | Contract<br>Sum | O/S<br>Orderbook |     |
|---|------------|-----------------|------------------|-----|
| Building  |            |                 | 1,273            | 23% |
| Putrajaya Parcel F  | 1Q 2019    | 1,610           | 34               |     |
| PPA1M Kota Bharu  | 1Q 2020    | 582             | 107              |     |
| Nippon Express  | 4Q 2019    | 70              | 17               |     |
| TNB HQ Campus (Ph 2)  | 2Q 2021    | 781             | 739              |     |
| PLC   | 2Q 2021    | 310             | 307              |     |
| Oxley Tower (MEP)   | 2Q 2022    | 68              | 68               |     |
| IOI Mall (MEP)  |            | 68              | 68               |     |
| Infrastructure/Piling   |            |                 | 2,165            | 39% |
| MRT V201 + S201   | 2Q 2021    | 1,213           | 205              |     |
| LRT 3 : Package G507-08   | 2Q 2021    | 2,178           | 1,817            |     |
| Piling works  | Various    | 128             | 30               |     |
| Piling works - Y19  | Various    | 99              | 56               |     |
| Sentul West Station (MEP)   | 1Q 2021    | 57              | 57               |     |
| Internal  |            |                 | 1,792            | 32% |
| SMC 4   | 4Q 2019    | 512             | 401              |     |
| Sunway Serene   | 4Q 2020    | 449             | 281              |     |
| Velo 2  | 4Q 2021    | 352             | 312              |     |
| Velocity 3C4  | 2Q 2021    | 100             | 83               |     |
| Sunway GEOLake  | 1Q 2021    | 223             | 118              |     |
| Carnival Mall Ext   | 4Q 2020    | 286             | 234              |     |
| SMC Seberang Jaya   | 4Q 2020    | 180             | 154              |     |
| BB Solar  | 4Q 2019    | 8               | 8                |     |
| Big Box Hotel   | 3Q 2020    | 100             | 87               |     |
| Parcel CP2 (piling)   | 3Q 2021    | 119             | 114              |     |
| Singapore   |            |                 | 321              | 5%  |
| Precast   | Various    | 331             | 201              |     |
| New Order 2019  | Various    | 120             | 120              |     |
| Grand Total   |            | 9,942           | 5,619            |     |
| The material contained herewith remain the sole property of Sun. Red: Secured in 2019 |            | 1,730           | 1,624            |     |



### **NEW ORDER BOOK SECURED 2019 TO-DATE**

| Projects (2019 new awards)                | Client                                  | Duration  | Contract Sum (RM'mil) |
|---|---|-----------|-----------------------|
| TNB HQ Campus Development (Phase 2)       | Tenaga National Berhad                  | 26 months | 781.3                 |
| LRT 3 - GS10 piling works                 | SN Akmida                               | 12 months | 47.6                  |
| LRT 3 - GS06 piling works                 | Rahimkon                                | 4 months  | 12.8                  |
| Transit Oriented Development - Plot 7MD7  | Putrajaya Development Sdn Bhd           | 16 months | 38.8                  |
| Big Box Hotel (14 floor, 288 rooms)       | Sunway MarketPlace Sdn Bhd              | 16 months | 99.5                  |
| Kallang Whampoa C57 (Precast)             | Hock Guan Cheong Builder Pte Ltd        | 36 months | 29.5                  |
| Punggol North C14 (Precast)               | Hong Leong Building Materials Pte Ltd   | 18 months | 26.6                  |
| Precast -others                           |   |           | 3.8                   |
| CP2 - Earthwork and pilings               | Sunway SouthQuay Sdn Bhd                | 20 months | 119.0                 |
| Oxley mixed development in Jalan Ampang - | NSC for Oxley Rising Sdn Bhd.           | 35 months | 67.8                  |
| Electrical and ELV                        | Main Contractor : Ssangyong             |           |                       |
|   | Engineering & Construction Co Ltd       |           |                       |
| Petronas Leadership Centre, Bangi         | Petronas Management Training Sdn Bhd    | 20 months | 310.0                 |
| Grand Total till June 2019                |   |           | 1,536.7               |
| IOI Mall (MEP)                            | IOI City Mall Sdn Bhd                   | 18 months | 68.0                  |
| Sental West Station (MEP)                 | MMC Gamuda kvmrt (UGW) JV               | 12 months | 56.6                  |
| Big Box Rooftop solar                     | Sunway Century Sdn Bhd                  | 3 months  | 8.0                   |
| Jurong West N2C20 (Precast)               | Kienta Engineering Construction Pte Ltd | 13 months | 38.6                  |
| Tampines N9C18 (Precast)                  | Welltech Construction Pte Ltd           | 15 months | 21.9                  |
| Secured up to 30 Sept 2019                |   |           | 1,729.7               |

Target NEW order book for FYE 2019 : RM

1.5b

New order 2018: 1.6b, 2017: 4.0b, 2016: 2.7b, 2015: 2.6b, 2014: 0.8b,

**2013**: 2.9b, **2012**: 1.9b

Outstanding Order book 2018: 5.2b, 2017: 6.1b, 2016: 4.8b, 2015: 3.8b, 2014: 3.0b,

**2013**: 3.2b, **2012**: 4.1b

### PROVEN TRACK RECORD

Successfully Secured & Executed Major Projects both Domestically & Internationally..





Parcel F, Putrajaya Completed: 2019 Value: RM1,610mil



Package V4
Completed: 2016
Value: RM1,172mil



Kuala Lumpur Convention Centre Completed: 2005 Value: RM549mil



Phase 1A, Rihan Heights,UAE Completed: 2010 Value: US\$510 mil



East-West Corridor Uttar Pradesh, India Completed: 2008 Value: US\$67 mil



Affairs
Completed: 2007
Value: US\$58 mil



Al-Reem Island Completed: 2009 Value: US\$362 mil



Completed: 2016 Value: SGD31mil



Completed : 2015 Value: RM569mil





### STRONG BRAND HERITAGE

#### **Proven Capabilities...**



#### Which Led to an Established Multi-Award Winning Brand...



Proven
Operating
Success





**Excellent** Reputation



Heritage of Over 30 years

Leverage on the "Sunway" Brand

#### 2019

- 6 March 2019: 4<sup>th</sup> Asia Sustainability Reporting Awards (ASRA)
   Singapore Asia's Best Sustainability Report within Annual
   Report
- 31 July 2019: MSWG Corporate Governance Awards Overall CG & Performance (Silver / 2<sup>nd</sup> placing) and CG Disclosure (Top 15)
- 1 Aug 2019: MSOSH OSH Awards 2019 commendable safety and health record (1 Gold Class 1, 4 Gold Class 2 & 1 Silver)
- 18 Sept 2019 : The Edge Billion Ringgit award Highest ROE
- 4 Oct 2019: MCIEAW 2019 "Contractor of the Year"

#### FTSE4Good Bursa Malaysia Index

Bursa Malaysia has always advocated sustainability as key to business success today. A holistic approach to business management, incorporating economic, environmental, social and governance considerations alongside financial ones, will serve as a sound business model that supports business continuity and long term value creation for stakeholders and society at large.



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 2014 – Export Excellence Award



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



### **CONTINUOUS SUPPORT INTERNALLY**

#### **Sunway Group Strategic Relationship**

decline

rock orders during a

construction sector

the

## **SUNWAY**®



Major property developer in Malaysia. Revenue = 2018 : 0.6b (2017, 0.9b, 2016: RM1.2b) from its property development divisions



Total gross development value of remaining landbank (3,356 acres) Johor 50%, Klang Valley 28%, Penang 6%, Singapore 12%, Others 4% – **RM58.7 bil (15 years)** 



2019 Launch Target RM2b (2018: RM2.1b, 2017:

RM1.1b, 2016: RM0.65b, 2015: RM1.4 bil)

Sales target 2019 - RM1.3b (2018: RM1.8b; : RM2017:

RM1.2b; 2016: RM1.2b, 2015: RM1.2b)



At least 51% stake in Suncon Group post IPO

#### **Our Key Developments with Sunway Group**



Sunway Pyramid



Sunway Carnival Mall



Sunway Medical Centre



Sunway Lagoon

#### **Ongoing Projects**



Sunway Geo Suites



Sunway Serene, Kelana Java



Sunway Velocity Hospital



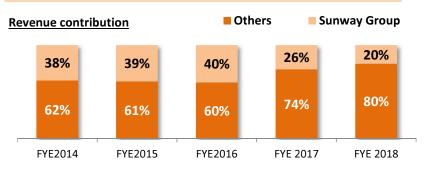
Emerald Residence

# **SUNWAY** © CONSTRUCTION

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**



2018 : secured RM1.2 bil worth of orders from Sunway Group (77% of new order win)

2017/8 : reduced reliance on in-house jobs

Symbiotic Relationship with Sunway Group Provides Stability During Periods of Downturn



## HIGHLY EXPERIENCED MANAGEMENT TEAM

#### **Chung Soo Kiong**



**Designation** :Managing Director

Years in : 21 years Suncon Group

Construction : Over 20 years

Industry Experience

#### **Datuk Kwan Foh Kwai**



**Designation**: Advisor

Years in : > 21 years Suncon Group

Construction: 40 years

Industry Experience

#### **Liew Kok Wing**



**Designation** :Deputy Managing

Director

Years in : 21 years

Suncon Group

Construction: Over 20 years

Industry Experience

#### **Evan Cheah**



**Designation** :Non-Independent Non-Executive

Director

Years in : 16 years Suncon Group

Construction : Over 15 years

Industry Experience

#### Ng Bee Lien



**Designation** :Chief Financial Officer

Years in : 13 years Suncon Group

**Construction**: 20 years

Industry Experience

#### **Thomas Samuel**



**Designation** :Executive Director

Sw.Geotechnics

Years in : Since 2015

**Suncon Group** 

Construction: Over 33 years

Industry Experience

#### **Richard Wong**



**Designation** :Executive Director Building Division

Years in : 18 years Suncon Group

Construction : Over 28 years

Industry Experience

#### **Kwong Tzyy En**



**Designation** :Executive

Director

Precast Division

Years in : 16 years Suncon Group

Construction : Over 20 years

Industry Experience

#### **Eric Tan Chee Hin**



Designation :E

:Executive Director MEP Division

Years in Suncon : 17 years

Group

Construction Industry : Over 19 years

Industry Experience

Extensive Industry Expertise and Strong Execution Capability with an Average of Over 23 Years of Experience in the Construction Industry

#### **KEY TAKEAWAYS**

#### **Fully integrated Construction Company**

- Integrated business model providing end-to-end design and construction solutions
- VDC enabled
- 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 Myanmar and India
- M'sia Budget 2019: RM29b budget in new hospital by JKR + Khazanah to develop 80 acres at Subang Aiport as aerospace hub + opportunities in renewable energy sector (LSS 3: 2b)
- Construction sector growth in 2018: 4.2%; 2017: 6.7%; 2016: 7.4%; 2015: 8.2% vs BNM forecast of 7.3% for 2018
- Singapore Precast: Construction on ICPH plant is on-going

#### **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 (> 20%)
- Sound balance sheet with net cash position
- 35% dividend policy (2015 : > 40%, 2016 : > 50%, 2017 : > 60%, 2018 : > 60%)



### **BUILDING – KLANG VALLEY**

**Job Scope**: 1 storey semi basement car park, 4 storey institutional building, 2 guard house, 1 surau and other including associated works and upgrading of ancillary buildings

This building is designed with a target of Platinum rating for both GBI and LEED. The Campus is designed to encourage social collaboration and enhance future learning experiences through innovative learning spaces in support of PETRONAS work culture. The form of the campus is the curved central pedestrian spine that becomes a main Infrastructure focus and links all building components, where classes and accommodation blocks are interconnected closely to create space cohesion and spaces that are physically connected via crossing pedestrian bridge, adjoining classroom, guestroom and public spaces, to allow seamless visual interaction and connectedness to all these spaces. The building measures 470 meters long and by 36 meter depth including the central spine with a total built up area of 42,074.82 sq. m (452,725 sq. feet) including the sub-basement car park.



#### Petronas Leadership Center, Bangi

Contract Sum : RM310 mil

Client : Petronas

Completion: 1Q2021



## **BUILDING – KLANG VALLEY**

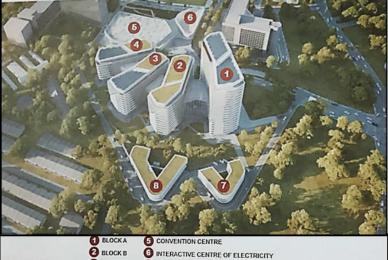
| Building                                     | No of<br>Storey |
|--|-----------------|
| Block A – Office                             | 19              |
| Block B - Office                             | 12              |
| Block C - Office                             | 9               |
| Block D- Office                              | 7               |
| Basement 2                                   | 1               |
| Basement 1                                   | 1               |
| LG   | 1               |
| 5 - Convention<br>Centre                     | 3               |
| 6 - Interactive<br>Centre For<br>Electricity | 2               |
| 7 - Pelitawanis                              | 4               |
| 8 - Child Care                               | 3               |

**AERIAL VIEW** 

8 BLOCK C

BLOCK D





PELITAWANIS

(B) CHILDCARE

SunCon's MEP arm was awarded the MEP package (NSC) of RM95m in 2Q 2019

TNB Campus, Bangsar (26 mths, 19 Jan 2019)

Contract Sum : RM781.3 mil (13.6 acres)

Client : Tenaga Nasional Berhad

Completion Year : 1Q2021



## **BUILDING – KLANG VALLEY**

| BLOCK | DEPARTMENT                          |
|-------|-------------------------------------|
| F3    | Jabatan Audit Negara                |
| F1    | Suruhanjaya Perkhidmatan Awam       |
| F2    | Jabatan Audit Negara                |
| F5    | Jabatan Perancangan Bandar dan Desa |
| F6    | Bahagian Pengurusan Hartanah        |
| F7    | Jabatan Kerja Raya                  |
| F11   | Jabatan Perangkaan                  |
| F8    | Shared Facilities Block             |
|       | Unit Kerjasama Awam Swasta          |
| F9    | Suruhanjaya Perkhidmatan Pelajaran  |
|       | Unit Kawal Selia Felda              |
|       | Biro Pengaduan Awam                 |
| F10   | Biro Tatanegara                     |
| F10   | Jabatan Landskap Negara             |
|       | Jabatan Perangkaan                  |





Contract Sum : RM1.6 bil

(34 acres, GFA = 445,170 sqm)

Client : Putrajaya Bina Sdn Bhd

Completion Year : 1Q2019



## **BUILDING - SOUTHERN REGION**











## **BUILDING – NORTHERN REGION**

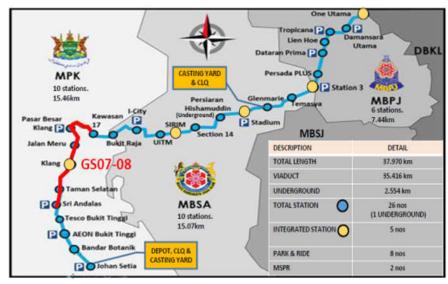


**SUNWAY CARNIVAL MALL EXTENSION** 



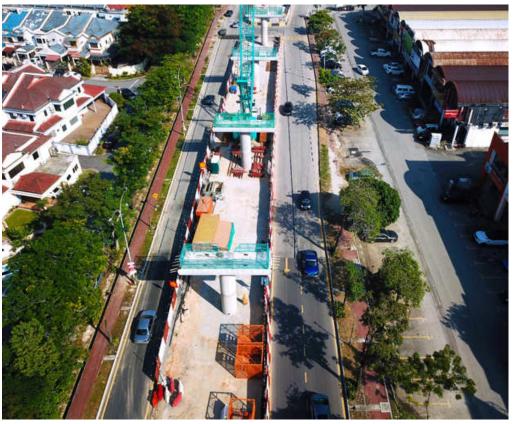
## **CIVIL / INFRASTRUCTURE**

#### LRT 3 - GS0708 (Kawasan 17 to Sri Andalas): RM 2.18B



#### **Job Scope:**

- 9.2km of viaduct works
- 6 stations works
- 1 "iconic" bridge over Klang River (Design & Build)
- 2 Park & Ride at Pasar Besar Klang and Sri Andalas
- 1 Centralised Labour Quarter at Johan Setia





## **CIVIL / INFRASTRUCTURE**

#### MRT V201: Sungai Buloh to Persiaran Dagang

Duration: 60 months (completion May 2021)

Job Scope: Construction and Completion of

Viaduct Guideway from Sungai Buloh to Persiaran

Dagang and Advance Work Construction of

Viaduct Guideway between Kampung Muhibbah

to Serdang Raya. Works involves 3 nos station,

142 nos piers, 180 km telco fibre optic

relocation, 21.5 km underground HT cables

relocation, 5.4 km water pipe relocation and 701

nos bored piles









## **GEOTECHNICAL**











## MECHANICAL, ELECTRICAL AND PLUMBING





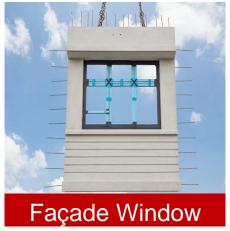






## PRECAST CONCRETE PRODUCTS



















### PRECAST CONCRETE PRODUCTS

| Plant   | Area (sq. ft.)                                       | Max Annual<br>Capacity<br>(m <sup>3</sup> ) | Utilisation<br>rate 2019<br>(%) | Utilisation rate 2018 (%) | No. of lines     |
|---|--|---|---------------------------------|---------------------------|------------------|
| Senai Plant (own) Oct 2012                              | Built up area :<br>262,231<br>Land area :<br>475,409 | 75,000                                      | 30%                             | 58%                       | 6+3 (half) lines |
| Iskandar Plant<br>(rented)<br>5 years Pioneer<br>Status | Land area : 9<br>hectares                            | 81,600                                      | 57%                             | 39%                       | 9 lines          |

HDB BTO Launch → 2018 = 15,811 nos wit 2019(F) = 15,000 nos (2017 : 17.593; 2016 17,891; 2015 : 15,100; 2014 : 22,455)

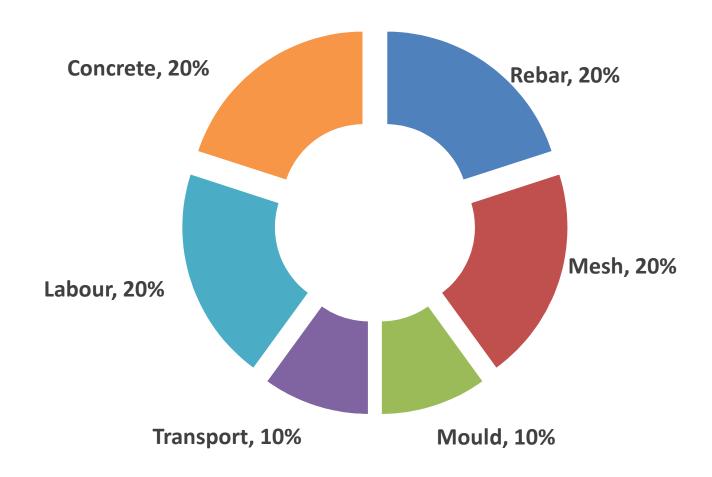
Capacity building → ICPH (Integrated Construction Precast Hub) in Pulau Punggol Barat costing SGD80m during the 3 years construction period for a 30 years lease for a fully automated robotic precast plant (Tender won on 27 July 2018 & tentative opening of plant : 4Q 2021)

Opportunities → HDB will implement prefabricated bathroom units (PBU) for all Singapore new flats by 2019.



## PRECAST CONCRETE PRODUCTS

### **Cost component of Precast**





## PRECAST - 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.

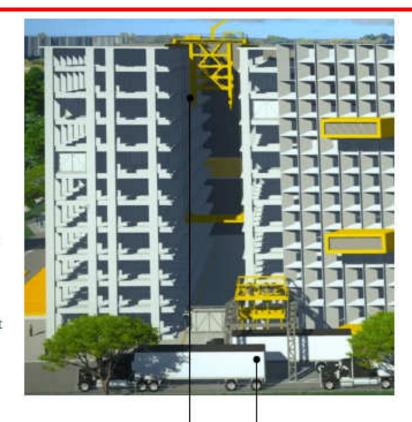
It added that with the finishes done in factories, there will be less noise and dust at the construction site. Fewer workers are also required on-site.

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



## PRECAST - OPPORTUNITIES IN SINGAPORE

#### THE BUSINESS TIMES

ID 1950 359 34 2007 - \$35 PH

#### REAL ESTATE



#### Prefabricated bathrooms, units for all Singapore new flats by 2019





THE Housing Development Board (HDB) says it will improve construction productivity through a greater use of prefabricated units that are assembled off-site but that can be installed on-site.

This would drive HDB's construction productivity on a larger scale, setting it on track to achieve a productivity improvement of 25 per cent by 2020, compared with 2010.

One of the initiatives is to expand the use of prefabricated bathroom units (PBU).

The HDB on Wednesday said that it would implement PBUs in 60 per cent of the flats launched in 2017, before extending this to all projects launched by 2019.

## **HDB** construction productivity to improve 25 per cent by 2020

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



@ 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

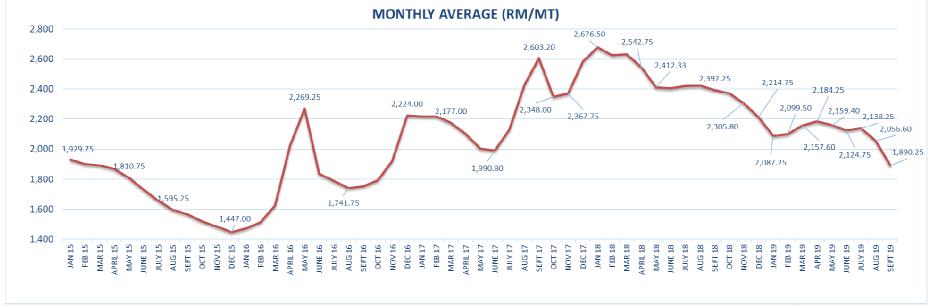
The Prefabricated Prefinished Volumetric Construction (PPVC) method - which involves constructing and assembling 3D modular units with finishes in a factory before it is transported to a construction site for installation - will also be used in 35 per cent of all HDB projects by





## POTENTIAL KEY RISKS

| <b>Potential Risk</b>                             | Potential Impact  | Controls to Mitigate Risk   |
|---|---|---|
| Fluctuation of<br>material price<br>– steel rebar | Steel bar price<br>Dec 2017: RM 2,583/mt<br>Jun 2019: RM 2,125/mt | <ul> <li>Bulk locked-in steel rebar in advanced at lower prices or when price is favorable.</li> <li>Forward-looking steel rebar requirement (approximately 6 months in advanced).</li> </ul> |
| Foreign<br>workers levy                           | RM 1,850p.a. for 600<br>direct workers. Cost<br>impact: RM1.1mil  | <ul> <li>Manage foreign workers efficiently as the cost on existing direct workers (600pax) are fixed.</li> <li>Levy cost will be factored in in new tender.</li> </ul>                       |
| Foreign<br>currency<br>fluctuation                | Importation of special lightings, furnishing & façade components  | <ul> <li>FOREX hedging in advance once design and bill of quantity is confirmed.</li> <li>FOREX rates are fixed upfront at the contractual level.</li> </ul>                                  |





## THANK YOU - ON-GOING PROJECTS





