

ELCOSMO-TJ
TOSHIBA **COMPACT MACHINE ROOM** ELEVATORS
STANDARD PASSENGER ELEVATOR
MADE FOR INDIA



Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire “Instruction Manual” carefully before use, for important information about safety, handling and operation.

TOSHIBA

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• The data given in this catalogue are subject to change without notice.

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THE SOLUTIONS

Made for India

With Urbanization being the trend of New India and urban population seeking a better lifestyle every passing day, Toshiba has launched an exclusive elevator model to cater to the upper middle segment of the real estate industry in India - ELCOSMO-TJ. With ELCOSMO-TJ we materialize Toshiba's long term commitment and association with Indian market and also contribute our PM's 'Make in India' initiative.

We at Toshiba realize the need of tailor make products that not only enhance the day to day lifestyle of each and every urban individual but also raises the bar for our continuous endeavour to offer highest quality products and services. ELCOSMO-TJ is here to give that feel of grandeur to the everyday elevator travel that touches our life.

ELCOSMO-TJ essentially comprises of modern technology and improved elevator development skills. The High-end Compact Machine Room elevator incorporates various technologies to save energy and time thereby contributing to the Indian Environment. Encompassing all the sectors of real estate, be it residential or commercial, ELCOSMO-TJ will surely enhance people traffic management. ELCOSMO-TJ is a perfect blend of latest technology and simplicity of design that suits best to Indian vertical transportation needs.

CONCEPT of ELCOSMO-TJ

Toshiba manufactures elevators by adopting the latest technology and improved manufacturing skills. ELCOSMO-TJ, the latest high-end compact machine room elevator, which incorporates various technologies to save energy and time, contributes to global environment.

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Product Lineup

Toshiba offers a wide variety of compact machine room elevators, which include 8-15 passenger elevators with rated speed of 1m/sec-1.75m/sec. To meet diversification of customer's demand, sufficient options are also available.

Scope of application	Range of application
Passengers (persons)	8-15 persons
Rated load (kg)	544-1020 kg
Rated speed (m/s)	1.0 , 1.75 m/s (60 , 105 m/min)

Note
The above scope complies with IS14665 standard.

Rated speed (m/s (m/min))	1.75 (105)	ELCOSMO-TJ			
	1.0 (60)				
Rated load (kg)		544	680	884	1020
Type		P8	P10	P13	P15

TECHNOLOGY

Advanced technologies for energy conservation

Cutting-edge Control Systems

A high performance CPU is employed for advanced cutting edge control system. This control system enables to reduce standby electricity, automatic shutoff system for lightings and ventilation to accomplish furthermore reduction of electricity.

Traction Machine Designed and Manufactured by Toshiba

- ◆ Since 1895 Toshiba have been manufacturing motors for more than 100 years. The motors produced by Toshiba assure superb quality and durability.
- ◆ Employing compact PMSM (Permanent Magnet Synchronous Motor) to save spaces.
- ◆ Up to 30% reduction in energy consumption (compared to conventional electric motor).
- ◆ Low vibration, and low noise.



Environmental issues

In order to propose safe and secure elevator, ELCOSMO-TJ focus on environmental issue.

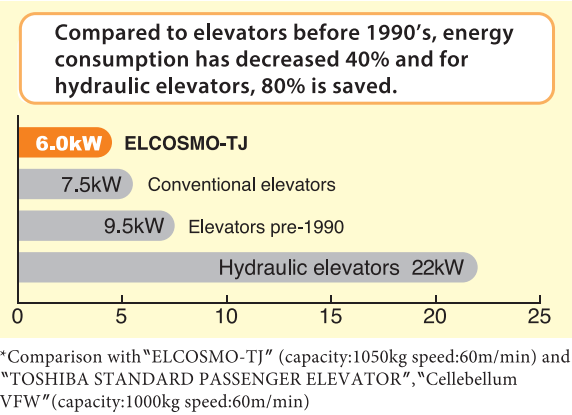
The advance technologies for energy consumption and resource saving concept offers high concerns for environmental consciousness. Also the product is compliant to RoHS, eliminating 15 classifications of specific chemical substances, and using lead-free substance for main circuit board.

Environmental issues

In order to propose safe and secure elevator, ELCOSMO-TJ focus on environmental issue. The advance technologies for energy consumption and resource saving concept offers high concerns for environmental consciousness.

Energy Saving Features STANDARD

ELCOSMO-TJ employs a newly developed compact gearless PMSM motor which enables high energy efficiency. Furthermore, by using a gearless motor, gear oil is not needed, which contributes to saving natural resources.



Reducing Hazardous Materials STANDARD

Reduction of lead use

By changing method to wedge-type socket, lead is not necessary in order to tie rope resulting to reduce lead use.

Employing LED lightings STANDARD

By employing LED light, various materials used for light became mercury free.

LED Lighting

Under equal brightness, an LED lighting system only consumes 10% of an cold cathode lamp and 50% of an fluorescent lamp. (part of ceiling)



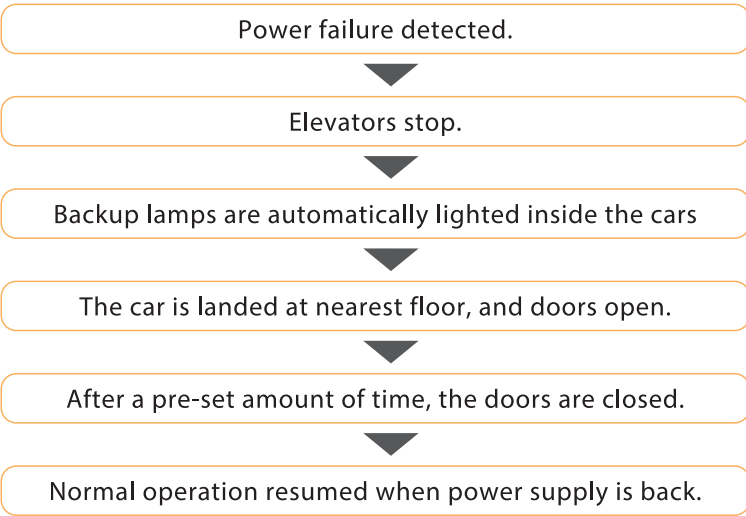
Car design: SL-P1

Lead-free Design of Base Plate, RoHS Compliance and Elimination of Specific Chemical Substances (15 Classifications) STANDARD

Continuous concern on the RoHS compliance, eliminating 15 classifications of specific chemical substances, and using the lead-free technique for main circuit boards.

Automatic Landing during Power Failure "TOSLANDER" STANDARD

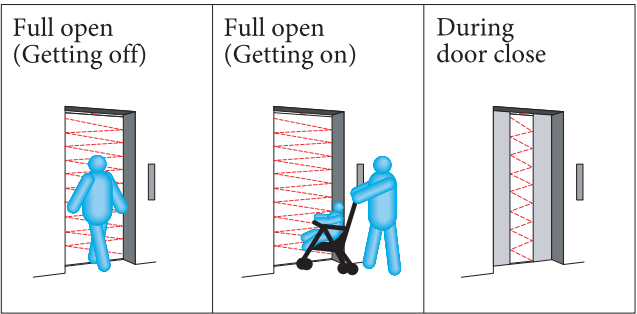
In case of a power failure, backup lamps are automatically lighted inside the cars, while the system's operation is switched to the elevator system's own battery powered inverter. Cars stranded between floors are landed at the nearest floor; otherwise, doors are opened and unload passengers. The doors automatically open in case the car stops at any point that is not between floors but where the doors can be opened.



Fire rated hall door (2hrs) STANDARD

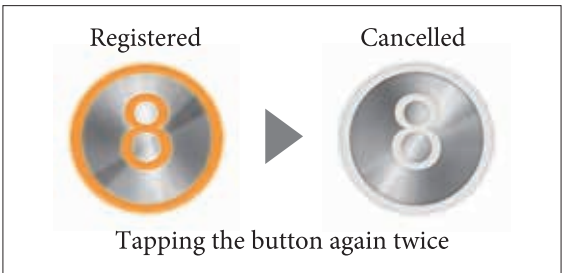
Multi-beam Door Safety STANDARD

The photoelectric cell detects passengers in the doorway and reopens closing doors.



Selection Cancellation STANDARD

When a wrong floor is selected by mistake, the selection can be cancelled simply by tapping the floor button again twice. Unnecessary stops slows the elevator's operation and is waste of energy. This cancellation function also saves the passenger unnecessary embarrassment.



STYLISH and COMFORTABLE

Employing LED lightings

By employing LED light, various materials used for light became mercury free.

LED Lighting

Under equal brightness, an LED lighting system only consumes 10% of an cold cathode lamp and 50% of an fluorescent lamp. (part of ceiling)

Car design: SL-P1

STANDARD



Car Design

TL-1

OPTIONAL



Ceiling Flower pattern LED lights at the center, and round LED lights at corners	
<i>Ventilation</i>	At the front of car ceiling
<i>Car panels</i>	Hairline finish stainless steel
<i>Car door</i>	Hairline finish stainless steel
<i>Car operating panel</i>	COP-G1N
<i>Car indicator</i>	Car operating panel with digital car indicator
<i>Flooring</i>	Vinyl tile

SL-V2

OPTIONAL



Ceiling Four LED lights at the center	
<i>Ventilation</i>	At the front of car ceiling
<i>Car panels</i>	Hairline finish stainless steel
<i>Car door</i>	Hairline finish stainless steel
<i>Car operating panel</i>	COP-G1N
<i>Car indicator</i>	Car operating panel with car indicator
<i>Flooring</i>	Vinyl tile

SL-3

OPTIONAL



Ceiling Four round LED lights at corners	
<i>Ventilation</i>	At the front of car ceiling
<i>Car panels</i>	Hairline finish stainless steel
<i>Car door</i>	Hairline finish stainless steel
<i>Car operating panel</i>	COP-G1N
<i>Car indicator</i>	Car operating panel with digital car indicator
<i>Flooring</i>	Vinyl tile

SL-4

OPTIONAL



Ceiling Acrylic block LED lighting at the center	
<i>Ventilation</i>	At the front of car ceiling
<i>Car panels</i>	Hairline finish stainless steel
<i>Car door</i>	Hairline finish stainless steel
<i>Car operating panel</i>	COP-G1N
<i>Car indicator</i>	Car operating panel with digital car indicator
<i>Flooring</i>	Vinyl tile

Actual product colors may vary slightly from the printed colors in this catalogue.

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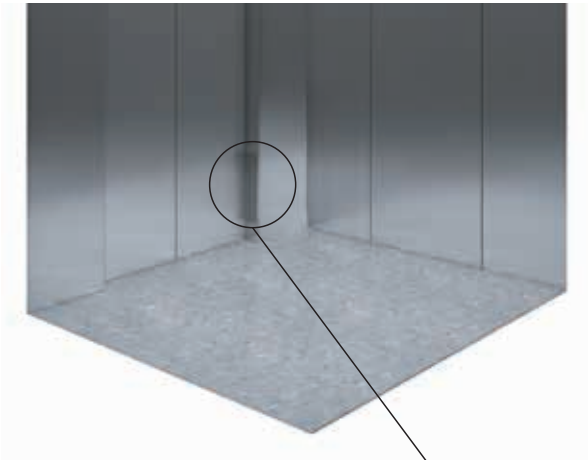
Car Design

SL-P1 STANDARD



Ceiling
Square type LED light at the center

<i>Ventilation</i>	At the front of car ceiling
<i>Car panels</i>	Hairline finish stainless steel
<i>Car door</i>	Hairline finish stainless steel
<i>Car operating panel</i>	COP-G1E
<i>Car indicator</i>	Car operating panel with digital car indicator
<i>Flooring</i>	Vinyl tile



Actual product colors may vary slightly from the printed colors in this catalogue.

Other Optional Items (Car)

Hand rail OPTIONAL



Hairline finish stainless steel round type hand rail



Hairline finish stainless steel flat type hand rail



SL-V2

Mirror OPTIONAL

Semiheight mirror made of glass



SL-3

Actual product colors may vary slightly from the printed colors in this catalogue.

Hall Design



Hall design 1 STANDARD

Hall jamb	Narrow type jamb (Hairline finish stainless steel panel)
Hall door	Hairline finish stainless steel panel
Hall position indicator	HIB-G1E
Hall sill	Hardened aluminium



Hall design 2 OPTIONAL

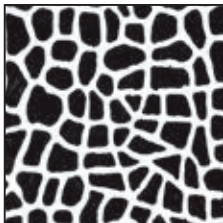
Hall jamb	Narrow type jamb (Hairline finish stainless steel panel)
Hall door	Hairline finish stainless steel panel
Hall button	HIB-G1N-43S
Hall lantern	HL-G1
Hall sill	Hardened aluminium

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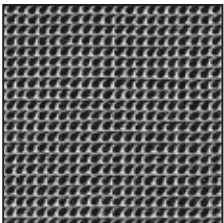
Color & Material Variations

Color Variation

SAMPLE OF ETCHING PATTERNS FOR STAINLESS STEEL PANEL OPTIONAL



TJ011 (MOON ROCK)

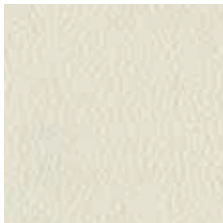


TJ013 (CANVAS)



TJ014 (PELLE)

DECORATIVE STEEL SHEET OPTIONAL



TJ001 (IVORY)

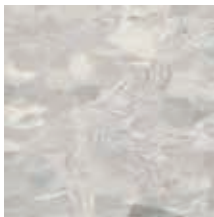


TJ003 (EQ.N14)



TJ006 (TEAKWOOD)

VINYL TILE FOR FLOOR TILE STANDARD



MID806



MID809



MID815



MID823



MID829



MID831



MID832



MID833



MID834

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Operation Systems

G1N OPTIONAL

Face Plate : Hairline finish stainless steel

180mm10mm

COP-G1N-70S

Large LCD type indicator
White color

92mm15mm

HIB-G1N-43S

175mm15mm

HIB-G2N-43S

Selectable button type

NB-1

Lighting off

Orange light

NB-2

Lighting off

Orange light

Actual product colors may vary slightly from the printed colors in this catalogue.

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Face Plate : Hairline finish stainless steel

180mm10mm

COP-G1N

Digital LED dot type indicator
Orange color

92mm15mm

HIB-G1N

175mm15mm

HIB-G2N

Selectable button type

NB-1

Lighting off

Orange light

NB-2

Lighting off

Orange light

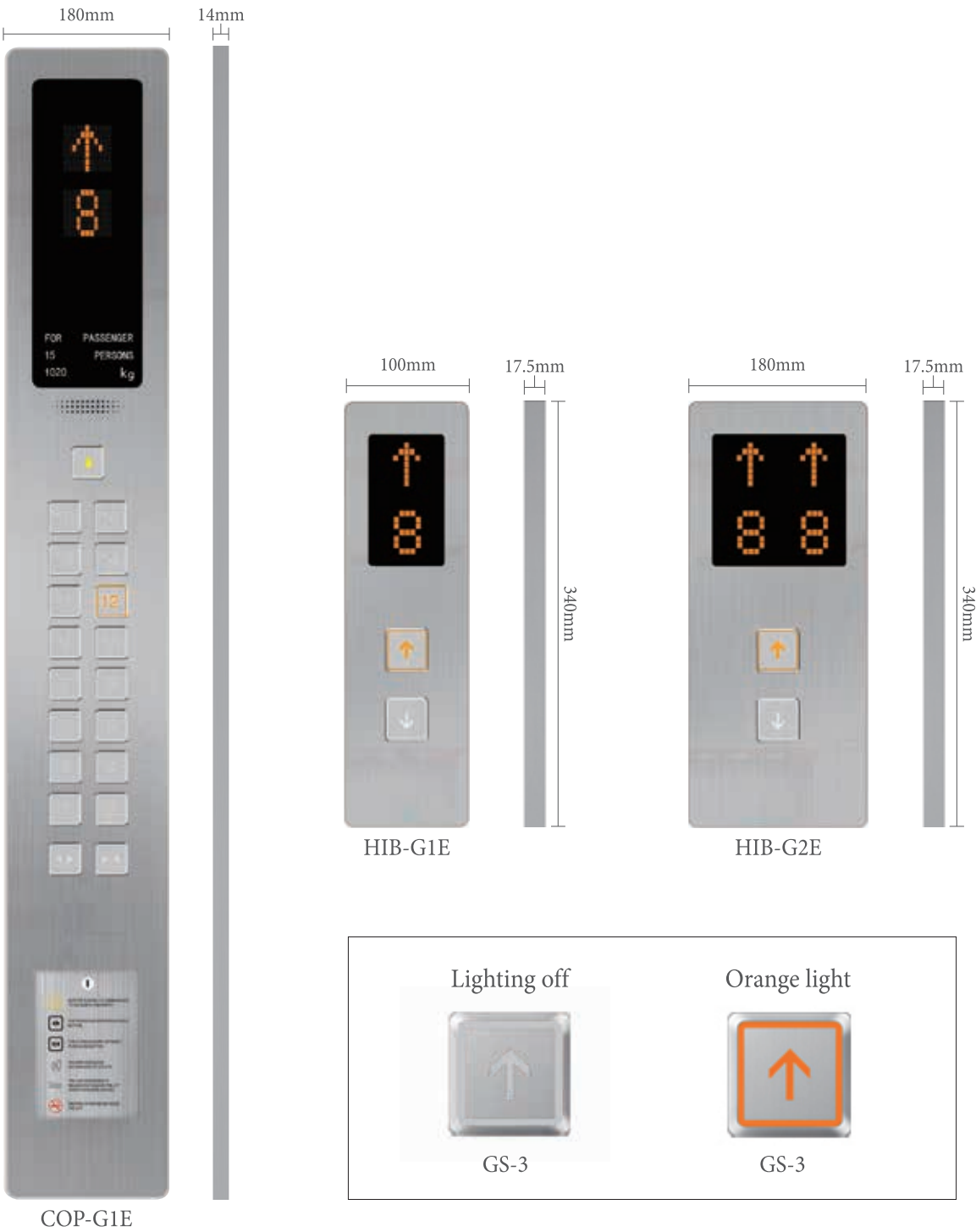
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Operation Systems

G1E STANDARD

Face Plate : Hairline finish stainless steel

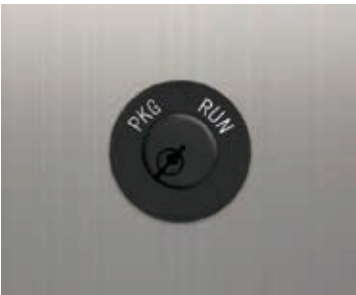


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Other Optional Items (Hall)

Parking switch OPTIONAL

Parking switch is mounted on HIB, better design flexibility for faceplate



Hall Lantern OPTIONAL



HL-G1
(Orange light)

Face Plate : Hairline finish stainless steel

Fireman switch OPTIONAL

Applied to Fireman switch for “Fireman’s operation” in case of provided safety functions

Face Plate : Hairline finish stainless steel



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Functions

● STANDARD ○ OPTIONAL

Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation (Note 1)	Fully automatic operation by hall and car calls for single car	●
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	○
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	○
	Independent operation	Lift car separated from group control operation and responde to car call only	○
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	○
Safety Functions	Automatic landing function when system failes	When system failure occurs, the lift will automatically land at the nearest floor and door will open for passengers to exit	●
	Car inspection operation (INS)	During car inspection operation, lift car will run at slow speed without responding to hall call	●
	Overload protection	Car overload buzzer will sound to prevent overloading and doors will remain open	●
	Door open when lift car is overloaded	Door will re-open when overload is detected even though it is closing	●
	Fireman's operation	In the event of fire, when Fireman's switch is activated, the designated lift will be ready for firemen to use	○
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	●
	Automatic landing during power failure (TOSLANDER)	In the event of power failure, the lift will land at the nearest floor by emergency battery	●
	In-car emergency lamp (self-charging)	In the event of power failure, the in-car emergency lamp will be activated	●
	Emergency call button	A button for passenger to make emergency call when they are trapped inside the lift	●
	Multi-beam door safety sensor	When multi-beam door safety sensed a passenger, door will open	●
Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by	○
	Full car bypass (Note 2)	When lift car is full, the lift will bypass all hall calls and go straight to the designated floor	●

Notes
1: Not applicable to lift car with through door.
2: Standard function for Duplex or 3-car group operation.
3: > 5 floors and car weight < 150kg.
4: For details of interface for building management system, please consult our local distributor.

● STANDARD ○ OPTIONAL

Functions	Notes	Descriptions	
Service Functions	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	●
	Nuisance call cancellation (Note 3)	Incorrect or nuisance floor calls can be cancelled to eliminate unnecessary operation	●
	Door repeated opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	●
	Adjustable door opening time	Adjusts door opening time to reflect building usage	●
	Car chime	Chime installed in car ceiling will sound when lift arrives	○
	Hall lantern	Hall lantern will be lighted when lift arrived	○
	Sub-car operating panel	Additional car operating panel	○
	Car full load indicator	"Full Load" will display on hall indicator when lift car is full	○
	Parking operation (manual)	Parks the lift at designated floor by key-switch	○
	Car lighting automatic cut-off	When the lift is not in operation after a pre-determined period of time, the car light will turn off automatically	●
	Ventilation fan automatic cut-off	When the lift is not in operation after a pre-determined period of time, the ventilation fan will turn off automatically	●
	"Door Open" button lamp (for automatically cut-off car lighting)	The "Door Open" button will remain lit when the lift car light is turned off automatically	●
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in reversal travel direction	●
	Multi-channel intercom	Intercom system is able to communicate with multi-stations simultaneously	●
	Designated floor stop operation	Automatically stops the lift at designated floor for crime prevention purposes	○
	Supervisory panel (Note 4)	Located in building control room, etc. for monitoring the status and control of each lift, Elevator is supply only signal contact	○

Works by Others

Works below are not included in elevator installation works:

Car inside finishes

STANDARD

OPTIONAL

Finished materials	Wall	Transom	Door	Return panel	Sill	Floor	Ceiling panel
Hairline finish stainless steel	●	●	●	●			●
Hairline etching stainless steel	○	○	○	○			
Mirror finish stainless steel	○	○	○	○			
Mirror etching stainless steel	○	○	○	○			
Decorative steel sheet	○	○	○	○			○
Hardened aluminium					●		
Vinyl tile (t2)						●	
Stainless steel checker plate (3t)						○	
Marble (20t or 25t) (Note 1)						○	
Round type handrail (Hairline finish stainless steel)	○						
Flat type handrail (Hairline finish stainless steel)	○						

Note 1: Flooring material is supplied by custmor

Hall finishes

Finished materials	Jamb	Door	Sill	Other
Hairline finish stainless steel	●	●		
Hairline etching stainless steel	○	○		
Mirror finish stainless steel	○	○		
Mirror etching stainless steel	○	○		
Decorative steel sheet	○	○		
Hardened aluminium			●	
Hall lantern (Hairline finish stainless steel)				○
Fireman switch (Hairline finish stainless steel)				○

► Hoistways

1. Hoistway construction and fire-proofing, and opening for jambs, indicators and push-buttons, etc.
Please note that chipping or padding work is required according to the necessity, in case the error of the structure is 30 mm or over.
2. Installation of separating beams, intermediate beam, back beam and lateral beams (if necessary).
3. Installation of the base plate for each floor and of bed steel for furnishing the equipment related to landing entrance, in case of hoistways of steel structure of PC structure.
4. Fire-proofing of steel frame material in steel structured hoistways, and fire-proofing around landing entrances (if necessary).
5. Finishing of walls and floors, etc., around entrances, after furnishing equipment related to landing entrances.
6. Furnishing of base steel or others for furnishing rail brackets, especially where the floor height is high (if necessary).
7. Installation of the entrance or the gangway for pit inspection (if necessary).
8. Water-proofing of the pit (including drainage if necessary).
9. Rearrangement of the building body in case that there are some spaces to be used under the pit.
10. Installation of emergency exits for rescue purposes in the event there are floors at which the elevator does not stop and installation of a fascia plate.
11. Shelter equipment from rain at landing entrances directly contacting to the air in the place like roof.
12. Installation of hooks or beams on top of the elevator shaft.
13. Installation of lighting in hoistway (if necessary).
14. Installation of vent opening at the top of shaft (if necessary).
15. Installation of a net or wall to prevent falling into the pit (in cases where the pit level is different.)
16. All related to the building structure other than works above.

► Machine rooms

1. Construction of machine rooms and installation works of their entrances (including soundproofing work if necessary)
2. Fire-proofing for machine rooms and opening work for machine room floors.
3. Installation of machine beam supports and spacers.
4. Cinder concreting and finishing after floor piping in machine rooms.
5. Installation of hooks or beams on ceilings in machine rooms.
6. Installation of stairs leading to machine rooms and stairs in machine rooms (if necessary).
7. Installation of lighting and windows.
8. Dustproofing of floors.

► Works for Equipment

1. Wiring of the power supply for motors and that for lighting equipment, and of grounding to power source panels of elevators in the Elevator shaft.
2. Wiring of the power supply to the supervisory panels.
3. Piping and wiring of intercoms outside hoistway and of others necessary for elevators.
4. Supply and installation of switching devices for emergency power supply in case of power failure and two pairs of relay contacts for normal / emergency power identification, and their piping and wiring (if necessary).
5. Piping and wiring of supervisory panels, alarm panels and inter-communication systems, etc., outside hoistways.
6. Furnishing of receptacles for inspection in pits.

► Temporary Works

It is required to arrange the following matters:

1. To secure the site office for installation work and the stock yard for materials without charge.
2. Enclosure to be used during the installation work.
3. Supply of electric power for installation work and the trial operation for adjustment.
4. Security of enough passage for carrying heavy goods.
5. On use of elevator for the construction work of the building, It is required to make contract with a separate written estimate.

Note

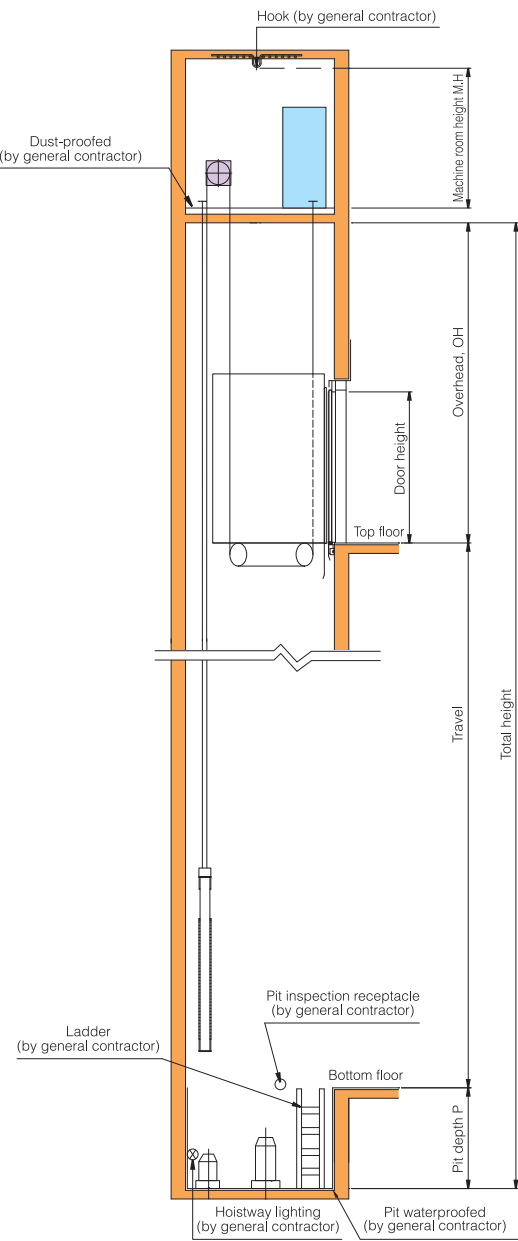
During equipment planning of elevators, please take the following items into consideration:

1. Provide power facility so that voltage regulation of the power supply at the receiving terminals in the hoistway is kept within ±10% for the motor, and ±2% for the lighting equipments.
2. In the hoistways, please prevert the temperature from exceeding 40 °C and humidity from exceeding 90% (monthly mean) and 95% (daily mean).
3. Please do not allow any chemically toxic gas or an excessive amount of dust to enter into the hoistways, as these can corrode the metal or electrical contacts.

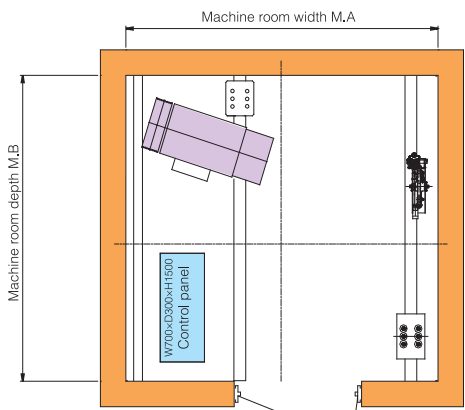
When asking for an estimate, please inform us of the following:

1. Building name and address.
2. Desired type and number of set.
3. Number of stops.
4. Floor height.
5. Voltage and frequency of main power supply.
6. Desired completion date.

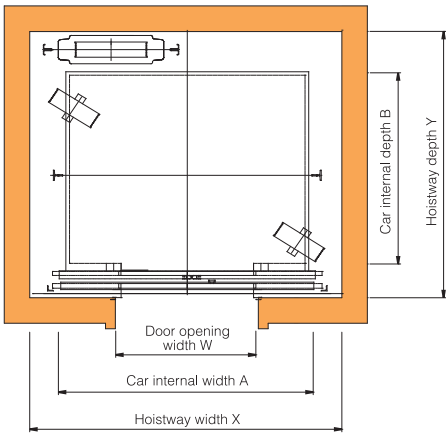
Hoistway Layout



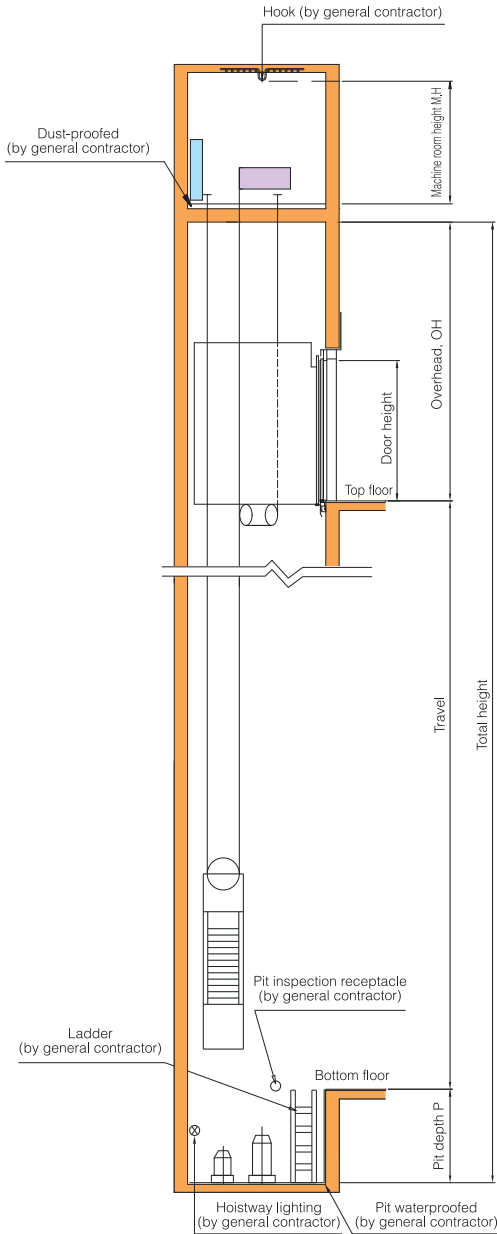
Hoistway section



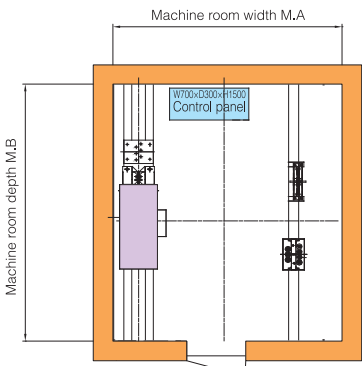
Machine room plan



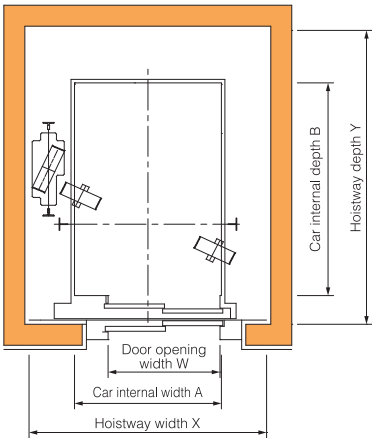
Hoistway plan (W)



Hoistway section



Machine room plan



Hoistway plan (D)

Specifications

Type	Nos.of Person	Capacity (kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door size (mm)	Hoistway size (mm)			Machine room dimensions (mm)		Motor Capacity (kW)	Max.Service Stops(s)	Max.Travel (m)
					W×H	X×Y	OH	P	M.A×M.B	M.H			
P8-CO60	8	544	1.0	1300×1100	800×2100	1750×1680	4000	1400	1750×1680		3.2		90
P8-CO105			1.75				4250	1450			5.5		100
P10-CO60	10	680	1.0	1300×1350	800×2100	1750×1930	4000	1400	1750×1930		3.9		90
P10-CO105			1.75				4250	1450			6.8		100
P13-CO60	13	884	1.0	1600×1350	900×2100	2000×1930	4000	1400	2000×1930	2000	5.1	40	90
				2000×1100		2400×1680		1400	2400×1680		5.1		
P13-CO105			1.75	1600×1350	900×2100	2000×1930	4250	1450	2000×1930		8.9		100
				2000×1100		2400×1680		1450	2400×1680		8.9		
P15-CO60	15	1020	1.0	1600×1500	900×2100	2000×2080	4000	1400	2000×2080		5.9		90
P15-CO105			1.75				4250	1450			10.2		100

Type	Nos.of Person	Capacity (kg)	Speed (m/s)	Cage size Internal(A×B) (mm)	Door size (mm) W×H	Hoistway size (mm)			Machine room dimensoins (mm)		Motor Capacity (kW)	Max.Service Stops(s)	Max.Travel (m)
						X×Y	OH	P	M.A×M.B	M.H			
P13-2S60	D	13	1.0	1100×2000	900×2100	1860×2430	4000	1400	1860×2430	2000	5.1	40	90
P13-2S105			1.75				4250	1450			8.9		100
P15-2S60		15	1.0	1100×2200	900×2100	1860×2630	4000	1400	5.9		90		
P15-2S105			1.75				4250	1450	10.2		100		

Note:

- The above table complies with IS14665 standards.
- Please contact to our local distributor to check for other standards.
- Hoistway dimensions are the minimum dimension after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.

W: Wide car D: Deep car

Network in India

H TOSHIBA JOHNSON ELEVATORS (INDIA) PVT. LTD. Head Office (MUMBAI)

1 602, 6th Floor, C&B Square, Sangan Complex,
127, Andheri Kurla Road, Andheri (East), Mumbai, India 400 059



2 BANGALORE

Prestige Meridian - I, 912, 9th Floor,
No.29, M.G. Road, Bangalore - 560001

3 DELHI

Unit no-30, 1st floor, Omaxe Square,
Jasola District Centre, New Delhi-110044

4 GURGAON

4th Floor, Building no.10, Tower B,
Phase-II, DLF Cyber city, Gurgaon-122002, Haryana.

5 CHENNAI

11/3A, 3rd Floor, Platinum Tower – 1, Old Trunk Road,
ISSA, Pallavaram, Chennai 600043, India

6 KOLKATA

BC-60, Anurupapally, Krishnapur, P.S Baguiati Dist.
North 24, Parganas, Kolkata – 700101.

7 HYDERABAD

Mid Town Plaza , 1st floor No.1,
Banjara Hills, Hyderabad - 500033

8 PUNE

Avishkar Elegance, Survey No. 129/3, Baner Balewadi Road,
Village - Baner, Tal. Haveli, Dist- Pune- 411045

9 COCHIN

39/6501, Chiramel Chambers, Kurisupally Road,
Ravipuram, Cochin - 682015

10 AHMEDABAD

Block A, TF 4, Anand Complex,
Sarkhej - Gandhi Nagar Highway, Ahmedabad - 9



Global Network

- Head office / Manufacturing base
- Head office

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E CHEVALIER (HK) LIMITED

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Wang Hoi Road, Kowloon Bay, Hong Kong

F CHEVALIER SINGAPORE HOLDINGS PTE. LTD.

Head Office: 23 Genting Road #07-01/02 Chevalier House,
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G M S ELEVATORS Sdn. Bhd.

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Factory: 2530, Lorong Perusahaan 10, Prai Industrial Estate,
13600 Prai, Province, Wellesley, Malaysia.

M S ELEVATORS ENGINEERING Sdn. Bhd.

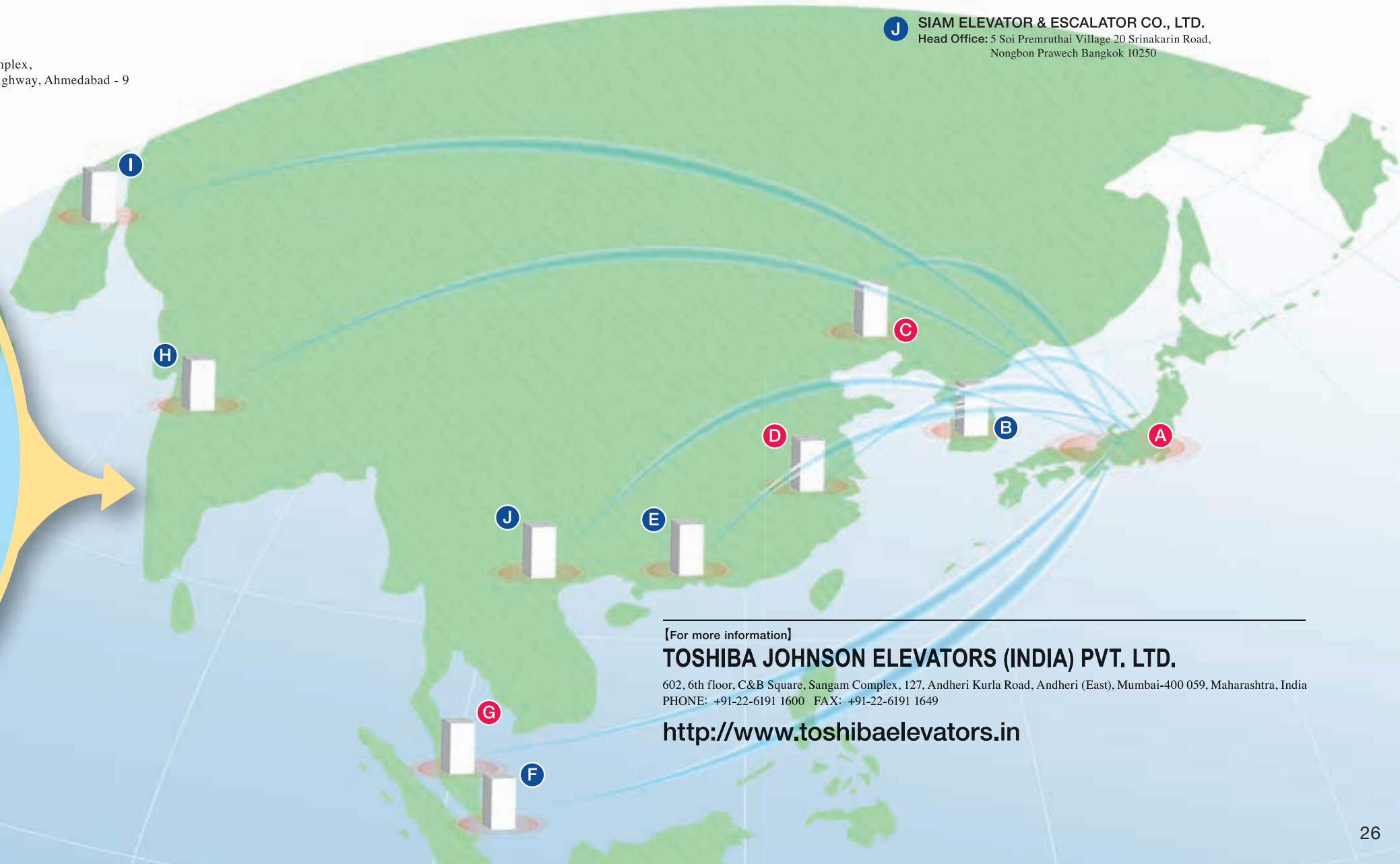
Head Office: 8th Floor, Wisma Penang Garden, 42
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KL Office: Wisma MS, No.15, Jalan 2/116 D,
Kuchai Entrepreneurs' Park, Off Jalan Kuchai Lama,
58200 Kuala Lumpur, Malaysia.

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J SIAM ELEVATOR & ESCALATOR CO., LTD.

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[For more information]

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