### 1. Description of Installation

Location (Address)					
Brand		Mode	l Lift N	No	
Lift Location ID			_ Length of Travel		m
Passenger Lift 🗆	Freight Lift 🗆	Vehicle Lift 🗆	Platform Lift 🗆	Stairlift 🗆	
Levels Served	5				
Rated Load	kg	Person	Rated Spee	d	m/s
Power Supply at Ti	ime of Test	Volt	Phase		Hz
Levelling tolerance	<u>+</u>	_mm	Number of Starts		/hr
Car Floor Area		m <sup>2</sup>			
Machine Room Lo	cation: *above lift	: well / below lift v	vell / at side / others		
Is this a fireman's	lift?			Yes 🗆	No 🗆
Is this lift for perso	ns with a disabilit	y?		Yes 🗆	No 🗆
Model No. and Na			er		

# 2. Static Examination – Mechanical

Stati	c Exar	mination – Mechanical
2.1	•	pension Suspension Ropes Certificate No. & Date of Issue Number Nominal Diametermm Have the suspension ropes attained the criteria for replacement in accordance with Clause 5.4.7 of the Works Code? Yes D
	(b)	Type of Anchorages: Car Counterweight
		Have the anchorages been examined and found in good working condition? Yes $\Box$ No $\Box$
2.2	Safe	ety Gear
	(a)	
		the Design Code? Yes $\Box$ No $\Box$
	(b)	The Design Code? Yes □ No □ Brand Model Certificate No. & Date of Issue
		Certificate No. & Date of Issue
2.3	Ener	rgy Dissipation Buffer *N.A. / Fitted
	(a)	
		the Design Code? Yes $\Box$ No $\Box$
	(b)	Brand Model
		Certificate No. & Date of Issue

Is the buffer switch functioning properly? (c) Yes 🗆 🛛 No 🗆

2.4	Ener (a)	gy Accumulation Buffer Have the buffers been certified in accordance with Clause 6.2.1 o		. / Fitted f
	(b)	the Design Code? N.A.  Brand Model	Yes 🗆	No 🗆
		Certificate No. & Date of Issue		
	(c)	Do the buffers comply with Clause 6.2.2 of Part 1 of the Design C	Code? Yes □	No 🗆
2.5	the 1	e 5 the brake sustain the static car, in the lower part of its travel, with 125% of the rated load (passenger / general freight lifts) or150% e rated load (vehicle lifts / industrial truck loaded freight lifts)?	Yes 🗆	No 🗆
2.6		speed Governor		r
	(a)	Has the governor been certified in accordance with Clause 5.12.1 the Design Code?	of Part 1 Yes □	
	(b)	Brand Model		
		Certificate No. & Date of Issue		
	(c)	Is the data plate in accordance with Clause 11.6 of Part 1 of the Design Code?	Yes 🗆	
	(d)	Does the governor rope conform to Clause 5.12.6 of Part 1 of	105	
		the Design Code?	Yes 🗆	No 🗆
	(e)	Is the governor rope slack switch working properly?	Yes 🗆	No 🗆
2.7	Door	Locking Device		
	(a)	Has the landing door locking device been certified in accordance	with	
		Clause 3.7.3.1 of Part 1 of the Design Code?	Yes 🗆	No 🗆
		Brand Model Certificate No. & Date of Issue		
	(b)	Does the car door locking device comply with Clause 4.7 of Part 1 the Design Code?		
		the Design Code? Brand Model	res 🗆	
		Certificate No. & Date of Issue		
2.8	Acco	nding Car Oversneed Protection Means		
2.8		nding Car Overspeed Protection Means the ascending car overspeed protection means been certified in acc	ordance	
	with	Clause 5.13.11 of Part 1 of the Design Code? N.A. □		No 🗆
	(a)	Overspeed Governor	mJGJ	
		<ul> <li>(i) Is the Overspeed Governor using the one as mentioned in ite (If 'Yes', skip the following and go to item 2.8 (b).)</li> </ul>		No 🗆
		(ii) Has the governor been certified in accordance with Clause 5.		—
		of Part 1 of the Design Code?	Yes 🗆	No 🗆

		(i	ii) Brand Model
		(i	Certificate No. & Date of Issue
			/) Does the governor rope conform to Clause 5.12.6 of Part 1 of
		(\	i) Is the governor rope slack switch working properly? Yes $\Box$ No $\Box$
		(b) S (i	Counterweight Safety Gear (acting downwards)   Rope Gripper
		(i	Others (please specify) i) Brand Model Certificate No. & Date of Issue
	2.9	(a) T E	nded Car Movement Protection Means Type of Unintended Car Movement Protection Means Brake on Sheave  Rope Gripper  Car Safety Gear  Counterweight Safety Gear
		(b) ⊢	las the unintended car movement protection means in 2.9 (a) been certified
		(c) B	n accordance with Annex F.8 of EN 81-1 or similar? N.A.  Yes  No  rand Model Model ertificate No. & Date of Issue
3.	Stati	c Examina	ation – Electrical
	3.1	(a) L (b) N (c) P	on Resistance to Earth ift MotorMΩ /G Set (if fitted): MotorMΩ GeneratorMΩ ower SystemMΩ afety CircuitsMΩ
	3.2	Earthing	
		(b) Is	the maximum continuity resistance to earth less than 0.5 $\Omega$ ? Yes $\Box$ No $\Box$ is the car connected to controller earthing terminal by
		а	separate conductor≥0.75mm <sup>2</sup> ? Yes □ No □
	3.3	Is the fi	on of Conductors xed wiring in conduit or trunking (or fittings which ensure ent protection) throughout? Yes I No I
	3.4		Reversal and Phase Failure Devices phase reversal and phase failure devices operate correctly? Yes $\Box$ No $\Box$

# 4. Dynamic Tests

4.1	Safet (a)	y Contacts/Circuits Have the contacts at each landing entrance been proved to ensure		
		that when broken there is no movement of the car?	Yes 🗆	No 🗆
	(b) (c)	Have the mechanical locks at each landing entrance been proved for positive locking? Have the car door/gate contacts been proved so that	Yes □	No 🗆
	(c) (d)	when broken there is no movement of the car? If separate terminal stopping switches are fitted, do	Yes 🗆	No 🗆
	. ,	they operate satisfactorily? N.A. $\Box$	Yes 🗆	No 🗆
	(e) (f)	Do the final limit switches cut off the motor supply before the car or counterweight contact the buffers? Have the stopping devices on the car top, in the pulley room and pit, been proved so that when broken no	Yes 🗆	No 🗆
	(a)	movement of the car occurs?	Yes 🗆	No 🗆
	(g)	Have all other switches/contacts in the safety circuit been proved so that when broken no movement of the car occurs?	Yes 🗆	No 🗆
	(h)	Does the earthing of the most remote contact (lock or push button) operates a fuse or trip a breaker without delay?	Yes 🗆	No 🗆
	(i)	Are all other electromechanical interlocks working properly?	Yes 🗆	No 🗆
4.2	Car 1 (a) (b) (c)	Fop Control Station Speed Upm/s Speed Downm/s Does the design and operation of the car top station comply with Clause 10.3.1.3 of Part 1 of the Design Code?	Yes 🗆	No 🗆
		comply with Clause 10.5.1.5 of Part 1 of the Design Code?	res 🗆	
4.3	Cleai (a)	rances and Runby With the counterweight on its fully compressed buffers, how much further can the lift car move upwards before it hits any obstruction?		mm
	(b)	What is the distance between the car roof and the lowest parts		_
	(c)	of roof of the lift well, when the car levels with top floor? With the car resting on its fully compressed buffers, is there a sufficient space to accommodate a rectangular block as specified in Clause 1.5.3(a) of Part 1 of the Design Code with at least 0.5m		mm
	(d) (e)	between the bottom of the pit and the lowest point of the car? Distance of bottom runby of car Distance of bottom runby of counterweight	Yes 🗆	No □ mm mm

V

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#### 44 Door Test

- Type of sliding door \*Horizontal / Vertical / Collapsible (a)
- Form of operation of door \*Manual / Powered (b)
- Power supply to door control circuit (c)
- Maximum force at the mid-point of the travel (d)
- Does the construction & operation of the door re-opening device comply (e) with \*Clause 3.5.2.2 & Clause 4.6.2.2 / Clause 3.5.2.3 & Clause 4.6.2.3 of Part 1 of the Design Code? N.A. 🗆 Yes 🗆 No 🗆
- Do the car doors fulfil the requirements of Clause 4.10 of Part 1 of (f) the Desian Code? Yes 🗆 No 🗆

### 5. Measurements of the Electrical System

5.1 Particulars of Lift Motor (as stated on data plate)

Maker		Drive S	ystem		
Serial No	Spee	edrpm	Freque	ncy <u> </u>	
Power rating	kW	Rated Voltage	V	Current Rating	A

- 5.2 Particulars of \*MG Set Drive Motor / Convertor (as stated on data plate) 
   Maker\_\_\_\_\_
   Serial No.\_\_\_\_

   Power Rating\_\_\_\_\_\_kVA
   Voltage\_\_\_\_\_
   Current Rating \_\_\_\_\_A Speed \_\_\_\_rpm Frequency \_\_\_\_\_Hz (Note: Speed and frequency not applicable for convertor)
- Current and Speed Tests (at mid-point of travel) 5.3

	Lift Motor Lift Speed Lift Motor Input		Lift Motor Input		System Input MG Set*/Converto	
No Load Down	rpm	m/s	V	А	V	А
Full Load Up	rpm	m/s	V	А	V	А

#### 5.4

Overcurrent protection devices

	Lift Motor	MG Set Drive Motor	Convertor
Туре			
Settings			

- 6. Overspeed Governor Tests
  - 6.1 Car Governor Governor Type\_

		Electrical	Mechanical
Device Tripping	Marked	m/s	m/s
Speed	Measured	m/s	m/s

Serial No.

State how the governor was tested on the installation: \*Simulation / Free Fall / Actual Overspeed / Others (Specified)

6.2 Counterweight Governor (if fitted)

Governor Type\_\_\_\_\_ Serial No.\_\_\_\_\_

Serial	No

		Electrical	Mechanical
Device Tripping	Marked	m/s	m/s
Speed	Measured	m/s	m/s

State how the governor was tested on the installation: \*Simulation / Free Fall / Actual Overspeed / Others (please specify)

# 7. Car Safety Gear Tests

The following tests should be conducted with the car descending, with the brake Note: open and the machine continuing to run till the ropes slip or become slack.

7.1	7.1 Progressive Type			/ Fitted
	(a)	Does the safety gear operate correctly when engaging at rated speed with the rated load uniformly distributed in the lift car?	Yes□	No□
		OR		
	(b)	Does the safety gear operate correctly when engaging at levelling or inspection speed with 125% */150% * of the rated load uniformly distributed in the lift car? N.A. State the speedm/s	Yes 🗆	No 🗆
7.2		ntaneous Type	*N.A. /	Fitted
		the safety gear operate correctly when engaging at speed with the rated load uniformly distributed?	Yes 🗆	No 🗆

\* Delete whichever is not applicable

9.2.

	7.3	What was the stopping	distance in the tes	t?	_		m
	7.4	After the lift car was bro the floor horizontal, or s			?	Yes 🗆	No 🗆
8.	Cour	nterweight Safety Gear Te	sts and Counterw	eight Inspection			
	Note	1: The test (a) or (b) shou with the brake open ar slip or become slack.				ng,	
	8.1	Progressive Type	*N.A. / Fitte				
		(a) Does the safety ge at rated speed with			N.A.□	Yes 🗆	No 🗆
		(b) Does the safety ge levelling or inspect		OR ly when engaging at e car empty?	N.A.□	Yes 🗆	No 🗆
	8.2	Instantaneous Type				*N.A. /	' Fitted
		Does the safety gear operated speed with the car		en engaging at		Yes □	No 🗆
	Note	2: The following inspection	on (c) is carried ou	t after all dynamic test	s have bee	en compl	eted.
	8.3	Counterweight Are there any visual defe brackets and their fixing		counterweight includir	ng frame,	filler weig Yes □	ghts, No □
9.	Asce	nding Car Overspeed Prot	ection Means Test	t			
	9.1.	Overspeed Governor Tes	t				
		(a) Car Governor Governor Type		Serial No			
				Electrical	Mec	hanical	
		Device Tripping	Marked	m/s			m/s
		Speed (upward)	Measured	m/s			

(b) Counterweight Governor (if fitted) Governor Type

Governor Type		Serial No	
		Electrical	Mechanical
Device Tripping	Marked	m/s	m/s
	Manaurad	m /s	

Speed (downward)		nward)	Measured	m/	's		m/s
			vernor was tested o ual Overspeed / Otl	on the installation: ners (please specify)_			
Spee (a)	Car Sa	Does the s	f fitted) e conducted with t	he car ascending and correctly when eng r empty?		ke open. Yes □	No 🗆
	(ii) (iii)	State the i What was	heasured speed the stopping dista the deceleration in	m/ nce in the test?	s -		m m/s
(b)		est should be Does the s at present State the r What was	afety gear operate speed with the ca	he car ascending and correctly when eng r empty? m/ .nce in the test?	aging	ke open. Yes □	No 🗆 m
(c)		Does the r speed with State the r What was	e conducted with t		igaging a		No 🗆 mm/si
(d)		Does the k present w State the r What was	e conducted with t	perate correctly when m/ m/		ng at Yes □	No □ m

\* Delete whichever is not applicable

#### 10. Unintended Car Movement Tests

10. Unintended Car Movement Tests			13.2 What was the stopping distance of the empty car traveling in up direction at rated speed under emergency stopping conditions?
<ul><li>10.1 Subsequent to the operation for an upward moving lift car,</li><li>(a) the clearance between landing door sill and the apron</li><li>(b) the free distance from car sill to landing door lintel</li></ul>		mm mm	<ul><li>14. Duty Cycle Test</li><li>Does the lift operate satisfactorily for a period of at least 0.5 hour when</li></ul>
<ul> <li>10.2 Subsequent to the operation for a downward moving lift car,</li> <li>(a) the horizontal distance between the well wall and the entrance frame of the lift car (along from the level of the landing sill to 1,200mm downward)</li> <li>(b) the free distance from car sill to landing door lintel</li> </ul>		mm	running with rated load, full travel and intermediate stops at a rate of starts equal to the number of starts per hour recommended in Item 1? Y 15. General (Lift Work)
10.3 What was the deceleration in the test?		m/s <sup>2</sup>	<ul> <li>(a) Is the maximum load indicated in the car and does it comply with Clause 11.2.1 of Part 1 of the Design Code?</li> <li>(b) Does the fireman's lift operation function correctly? N.A.□</li> </ul>
<ul> <li>11. Buffer Tests</li> <li>11.1 For Car Buffers <ul> <li>(a) When the car was brought into contact with the buffers at rated load at rated speed, or at a speed for which the stroke of the buffers has been calculated, was the operation satisfactory?</li> <li>(b) Do the buffers recover automatically after operation?</li> </ul> </li> </ul>	Yes □ Yes □	No 🗆 No 🗆	<ul> <li>(c) Are the emergency instructions displayed in the machine room?</li> <li>(d) Does the emergency operation system function correctly in accordance with Clause 8.5 of Part 1 of the Design Code?</li> <li>(e) Does the emergency lighting of the car comply with Clause 4.16.3 of Part 1 of the Design Code?</li> <li>(f) What are the emergency alarm devices?</li> </ul>
<ul> <li>11.2 For Counterweight Buffers</li> <li>When the counterweight was brought into contact with the buffers with the car empty at rated speed, or a speed for which the stroke of the buffers has been calculated, was the operation satisfactory?</li> <li>12. Traction Check</li> </ul>	Yes 🗆	No 🗆	Mangt office    M/C room    Lift car      (i)    Alarm bell*        (ii)    Intercom*        (iii)    Indication light*        (iv)    Indication light for acknowledgement       & the notice*
<ul> <li>12.1 Does the car stop under emergency conditions</li> <li>(a) with the car empty when travelling upwards at rated speed?</li> <li>(b) with the 125% of the rated load when travelling</li> </ul>	Yes 🗆	No 🗆	<ul><li>(g) Does the overload device operate satisfactorily?</li><li>16. General (Other works)</li></ul>
<ul><li>downwards in the lower part of the lift well at rated speed?</li><li>12.2 With the counterweight resting on its fully compressed buffers, is it impossible for the empty car to be raised under power?</li></ul>	Yes □ Yes □	No 🗆	<ul> <li>(a) Is the machine room artificial lighting adequate for maintenance purposes?</li> <li>(b) Does the artificial lighting in the lift well comply with Clause 1.7(b) of Part 1 of the Design Code?</li> <li>(c) Are the machine room conditions satisfactory?</li> </ul>
<ul><li>13. Emergency Stopping Distance</li><li>13.1 What was the stopping distance of the car travelling in down direction at rated speed and carrying 125% of the rated load under emergency stopping conditions?</li></ul>		m	<ul> <li>(d) Are the provisions for ventilating the machine room adequate?</li> <li>(e) Are the machine room doors or trap doors fitted with a suitable lock to comply with Clause 3.15.3 and Clause 3.15.4 of the CoP on Building Works for Lifts and Escalators?</li> </ul>

m

Yes 🗆 🛛 No 🗆

Yes 🗆

Yes 🗆

N.A. 🗆 Yes 🗆

Yes 🗆 No 🗆

Yes 🗆 🛛 No 🗆

Main lobby/Pit

Yes 🗆 🛛 No 🗆

Yes 🗆 🛛 No 🗆

Yes 🗆 🛛 No 🗆

No 🗆

No 🗆

No 🗆

Yes 🗆

Yes 🗆

Yes 🗆

No 🗆

No 🗆

No 🗆

(f)	Are the safety means of access to all items of equipment in accordance with the Part 1 of the Design Code and the CoP on Building Works for Lifts and Escalators? If no, state details	)	Yes 🗆	No 🗆
(g)	Are the hoistway emergency doors (if fitted), in compliance wi			
	of the CoP on Building Works for Lifts and Escalators?	N.A.□	Yes 🗆	No 🗆
(h)	Documents (copy only) in respect of exemptions (if any) shall b	e provide	d	
	for reference.	N.A.□	Yes 🗆	No 🗆
(i)	Are CCTV camera provided in lift car and CCTV monitors prov	ided		
	in management office*and machine room*?	N.A.□	Yes 🗆	No 🗆

#### 17. Declaration

I certify that on \_\_\_\_\_\_\_the lift and all its associated equipment or machinery was thoroughly examined, and found to be free from obvious defects and in safe working order. I confirm also that the design and construction of the lift and all its associated equipment or machinery complied with Part 1, Part 5, or Part 6 of the Design Code, Works Code, and CoP on Building Works for Lifts and Escalators with the exception of the following items (if any, please specify).

Exceptions:

The information in this examination report is an accurate record of the examination carried out on the aforementioned date.

Remarks: Design Code means CoP on the Design and Construction of Lifts and Escalators Works Code means CoP for Lift Works and Escalator Works

Name & Registration No. of Registered Lift Engineer Signature of Registered Lift Engineer

Date

# 1. Description of Installation

2.

Brand_		Model	Lift No.	
Lift Lo	cation ID	Length of Travel		m
		L Vehicle Lift Platform	Lift 🗆 🤅 Stai	rlift 🗆
	irking System 🗆			
Levels	Served			
		kg Persons Rated Spee		m/s
	FRamm	Ram Action: *Direct	/ Indirect	
Type c	of Ram: *Single /Telescop	pic		
Power	Supply at Time of Test	VoltPhase	<u>,</u>	<u> </u>
Levelli	ng tolerance ±mn	n Number of Starts	<u>/hr</u>	
Curric	<u></u>			
Machi	ne Room Location: *abo	ve lift well / below lift well / at side /	others	
ls this	a fireman's lift?		Yes 🗆	No 🗆
ls this	lift for persons with a dis	sability?	Yes 🗆	No 🗆
Device	s provided against free f	all and descent with excessive speed	of the car—	
(a)	Safety gear tripped by		Yes 🗆	No 🗆
(b)	Safety gear tripped by	y failure of suspension		
	gear or by safety rope	2	Yes 🗆	No 🗆
(c)	Rupture valve		Yes 🗆	No 🗆
(d)	Restrictor		Yes 🗆	No 🗆
		inst creeping of the car—		
(a)	, , , , , ,	y downward movement of the car	Yes 🗆	No 🗆
(b)	Pawl device		Yes 🗆	No 🗆
(c)	Clamping device		Yes 🗆	No 🗆
(d)	Electrical anti-creep sy	/stem	Yes 🗆	No 🗆
Static	Examination – Mechanic	al		
2.1	Jack			
	-	Ilti Jack  Number of Jacks		
	In multi jack system, o	do the jacks comply with ? of the Design Code? N.		
	Clause 8.1.3 of Part 2	? of the Design Code? N.	A. 🗆 Yes 🗆	No 🗆
<b>-</b>	C			
2.2	Suspension	D		
	(a) Suspension I	Kopes		
	Certificate N	lo. & Date of Issue		
	numper <u> </u>	Nominal Diameter		mm
	Have the sus	spension ropes attained the criteria f	or replacement	LIN

	(b)	Type of Anchorage: Car Counterweight (if provided)		
		Have the anchorages been examined and found in go working condition?	od Yes □	No 🗆
2.3	Suspens (a) (c)	ion Chain *N.A. / Fitted Number (b) Pitch Type and Construction	mm	I
2.4	Safety ( (a)	Has the safety gear been certified in accordance with Clause 5.10.1.5 of Part 2 of the Design Code?		
	(b) (c)	Brand Model Certificate No. & Date of Issue		
2.5	Energy ( (a) (b)	Dissipation Buffer *N.A. / Fitted Has the buffer been certified in accordance with Annex F.5 of EN 81-2 or similar? Brand Model	Yes □	No 🗆
	(c)	Brand Model Certificate No. & Date of Issue Is the buffer switch functioning properly?	Yes □	No 🗆
2.6	Energy / (a) (b)	Accumulation Buffer *N.A. / Fitted Has the buffer been certified in accordance with Annex F.5 of EN 81-2 or similar? N.A. □ Brand Model	Yes □	No 🗆
	(c)	Certificate No. & Date of Issue Do the buffers comply with Clause 6.2.3 of Part 2 of the Design Code?	_ Yes □	No 🗆
2.7	Overspe (a)	ed Governor *N.A. / Fitted Has the governor been certified in accordance with Annex F.4 of EN 81-2 or similar?	Yes 🗆	No 🗆
	(b)	Brand Model Certificate No. & Date of Issue		
	(c) (d)	Is the data plate in accordance with Clause 11.6 of Part 2 of the Design Code? Does the governor rope conform to Clause 5.12.6	Yes □	No 🗆
		of Part 2 of the Design Code?	Yes □	
	(e)	Is the governor slack rope switch working properly?	Yes □	No 🗆

2.8	Door Locking Device         (a)       Has the landing door locking device been certified in accordance with Clause 3.7 of Part 2 of the Design Code?         Yes □       No □         Brand       Model         Certificate No. & Date of Issue
	Certificate No. & Date of Issue
2.9	Rupture Valve/One-way Restrictor Has the rupture valve/one-way restrictor been certified in accordance with Annex F.7 of EN 81-2 or similar? N.A.  Yes No D Brand Model Certificate No. & Date of Issue
Static	Examination – Electrical
3.1	Insulation Resistance to Earth (a) Pump MotorMΩ (b) Power SystemMΩ (c) Safety CircuitsMΩ
3.2	Earthing         (a)       Is the maximum continuity resistance to earth         less than 0.5 Ω?       Yes □         (b)       Is the car connected to controller earthing         terminal by a separate conductor≥0.75mm²?       Yes □       No □
3.3	Protection of Conductors Is the fixed wiring in conduit or trunking (or fittings which ensure equivalent protection) throughout? Yes \Quad No \Quad
3.4	Phase Failure and Phase Reversal Devices Do the phase failure and phase reversal devices operate correctly? Yes D No D
Dynan	nic Tests
4.1	Safety Contacts/Circuits (a) Have the contacts at each landing entrance been proved to ensure that when broken there is no
	importance       Yes □       No □         (b)       Have the mechanical locks at each landing entrance been proved for positive locking?       Yes □       No □

3.

4.

	(c) (d)	Have the car door/gate contacts been proved so that when broken there is no movement of the car? If separate terminal stopping switches are fitted,	Yes 🗆	No 🗆
		do they operate satisfactorily? N.A. $\Box$	Yes 🗆	No 🗆
	(e) (f)	Does the final limit switch operate in accordance with Clause 6.3 of Part 2 of the Design Code? Have the stopping devices on the car top, in the	Yes □	No 🗆
		pulley room and pit been proved so that when broken no movement of the car occurs? Have all other switches/contacts in the safety circuit	Yes □	No 🗆
	(g) (h)	been proved so that when broken there is no moveme of the car? Does the earthing of the most remote contact	ent Yes □	No 🗆
		(lock or push button) operates a fuse or trip a breaker without delay? Are all other electromechanical interlocks	Yes □	No 🗆
	(i)	working properly?	Yes □	No 🗆
4.2	Car Top (a) (c)	Control Station Speed Upm/s (b) Speed Down Does the design and operation of the car top station of with Clause 10.3.1.3 of Part 2 of the Design Code?	m/s comply Yes 🗆	No 🗆
4.3	Clearan (a)	<ul> <li>ces and Runbys</li> <li>Will the car and counterweight (if fitted) clear all obstaslow speed:</li> <li>(i) with the car and rated load compressing the car buffers?</li> <li>(ii) with the counterweight (if fitted) compressin its buffer (car empty)?</li> <li>N.A. □</li> <li>(iii) with the ram fully extended to the ram stop?</li> </ul>	Yes □ g Yes □	n driven at No 🗆 No 🗆 No 🗆
	(b)	What is the distance between the car roof and the low of the lift well, when the car levels with top floor?	vest parts	of roof mm
	(c)	With the car resting on its fully compressed buffers, is space to accommodate the rectangular block as specif 1.5.2(a) of Part 2 of the Design Code with at least 0.5 bottom of the pit and the lowest point of the car?	fied in Cla	ause
	(d) (e)	Distance of bottom runby of car Distance of bottom runby of counterweight (if fitted)		_ mm _ mm

\*Delete whichever is not applicable

4.4	Door Te (a)		*Horizont	al (Martical / Call	anciblo		(f)		valve operated at pr egrity of the pipewor		bar	Yes □	
	(b)	Type of sliding doors Form of operation of do	ors *Manual	/ Powered	ирлыс		(g)		lve secured against a			163 🗆	
	(c)	Power supply to door co	ontrol circuit	V			(9)	interference?	ive secured against e	ing anadanonzea		Yes □	No 🗆
	(d)	Maximum force at the n	nid-point of the travel	N			(h)		k valve hold the car	with rated load a	t		
	(e)	Does the construction &					( )	floor level?				Yes 🗆	No 🗆
		device comply with *Cla					(i)	Does the rupt	ure valve function co	orrectly?	N.A. □		No 🗆
		*Clause 3.5.2.3 & Claus	se 4.6.2.3 of the Part 2				(j)		ration of the manual				
		the Design Code?		N.A. 🗆 Yes 🗆	No 🗆		<b>3</b> ,		ow speed not exceed			Yes 🗆	No 🗆
	(f)	Do the car doors fulfil th					(k)		an indirect acting life		hain*/ropes	* switch	or
		of Part 2 of the Design (	Code?	Yes 🗆	No 🗆				ch prevent operation				
									of the switch?		N.A. □		
Measu	urements of	the Hydraulic and Electri	ical System				(I)		ns against any overh	eating of the			
								fluid provided		5		Yes 🗆	No 🗆
Note:	$1 \text{ bar} = 10^{\frac{1}{2}}$	N/m <sup>2</sup> = 10 <sup>5</sup> Pa											
						6.	Oversp	eed Governor/Sa	afety Rope/Suspensic	n Gear Tests			
(a)		ed load in the car and at					•						
	state the	e static hydraulic pressure			bar		(a)	Governor	*N.A. / Fitted				
								Type		Serial No.			
(b)		bject to 200% of full loa											
		jack (included) for a perio								Electrical	Mecha	nical	
	drop or	leakage of hydraulic fluid	?	Yes 🗆	No 🗆		Devic	e Tripping	Marked		m/s		m/s
		<b>C</b> (1)					Spee	d	Measured		m/s		m/s
(c)	Particula	rs of the pump motor (as	s stated on data plate)							1			
	Maker	)	Drive System					State how the	e governor was tested	d on the installati	on:		
	Serial No		Speedr/mir	n Frequency	HZ				Free Fall / Actual Ove			fy)	
	Power R	ating <u>k</u> W Rated	voltage <u>v</u>	_urrent Rating	A				OR				
( 1)	Deutieule	we of the way were (so states	l ava alata valata)				(b)	Safety Rope					
(d)	Particula	rs of the pump (as stated	on data plate)	Tures				If the safety g	ear*/clamping device	* is tripped by a	safety rope,	does,	
	iviaker_		_ Serial No.	туре	,				mechanism operate				No 🗆
(-)	Cumulant	and Consol Tests (at usid)	in a limit of two (all)					55 5		,			
(e)	Current	and Speed Tests (at mid-	point of travel)		2)		(c)	Suspension G	ear				
		Hydraulic pressure	Lift Speed Moto	or Input (See Note	2)				ear*/clamping device	e* is tripped by th	e failure of	suspensio	on gear,
		(See Note 1)						does the trigg	ering mechanism op	erate satisfactoril	y? N.A. □	Yes □	No 🗆
								55			•		
No	Load Up	bar	m/s	V	A	7.	Car Saf	fety Gear Tests	*N.A.	/ Fitted			
<b>D</b> . 1		1						ž					
Rate	ed Load Up	bar	m/s	V	A		Note:	The following	tests should be cond	ducted with the c	ar descendir	ıg.	
NL	4 TI.												
INOTE	e i - ine pr	essure readings should be	e taken between the cr	ieck valves, or do	wn		(a)	Progressive Ty	/pe				

direction valve, and the supply line to the cylinder.

should be taken with the motor running steadily.

Note 2 - The motor current readings on conductors adjacent to the motor terminal block

Progressive Type (a) Does the safety gear operate correctly if engaged at \*levelling / inspection / rated speed with \*100% / 125% / 150% of the rated load uniformly distributed in the lift car? Yes 🗆 🛛 No 🗆 State the speed: \_\_\_\_\_m/s

\*Delete whichever is not applicable

12.

		OR		
(b)		afety gear operate correctly if engaged at d with the rated load uniformly distributed	Yes □	No
(c)	What was	the stopping distance in the test?mm		
(d)		ft car was brought to a halt in the above test, was or horizontal, or sloping less than 5% from the ?	Yes □	No
Clamp	ing Device Te	sts *N.A. / Fitted		
(a)		lamping device operate correctly when engaging 5*/150%* of the rated load uniformly distributed	Yes 🗆	No
(b)		lamping device operate correctly when engaging */150%* of the rated load uniformly distributed	Yes □	No
Buffer	Tests			
(a)	ra st (ii) D	ffers Vhen the car was brought into contact with the buff ated load and at rated speed, or at a speed for whic troke of the buffers has been calculated, was the op atisfactory? o the buffers automatically return to their designed fter undergoing compression?	h the eration Yes □	No I
(b)	When the with the ca	erweight Buffers (if fitted) counterweight was brought into contact with the b ar empty and travelling at rated speed, or a speed fo of the buffers has been calculated, was the operation ? N.A. $\Box$	r which on	No
Anti-C	reep			
		device operate in accordance with conditions 10.3.1.4 of Part 2 of the Design Code?		

8.

9.

10.

# 11. Duty Cycle Test

	g intermediate stops at a rate equal to the number of starts our as stated in Item 1?	Yes 🗆	No 🗆
Gener	al (Lift Work)		
(a)	Is the maximum load indicated in the car and does it comply		
(h)	with Clause 11.2.1 of Part 2 of the Design Code? Does the fireman's lift operation function correctly? N.A.	Yes □ Yes □	No □ No □
(b) (c)	Does the fireman's lift operation function correctly? N.A. □ Are the emergency instructions displayed in the	res 🗆	NO ∐
(C)	machine room?	Yes □	No 🗆
(d)	Does the manual emergency operation system function		
	correctly in accordance with Clause 8.9 of Part 2 of the		
(-)	Design Code?	Yes 🗆	No 🗆
(e)	Does the emergency lighting of the car comply with Clause 4.16.3 of Part 2 of the Design Code?	Yes □	No⊓
(f)	What are the emergency alarm devices?		
	Mangt office M/C room Lift car	Main	lobby/f
(i)	Alarm bell*	Wall	
(ii)	Intercom*		
(iii)	Indication light* $\Box$ $\Box$		
(iv)	Indication light for acknowledgement		
	& the notice*		
(g)	Does the overload device operate satisfactorily?	Yes □	No □
(9)			
-	al (Other Works)		
-	Is the machine room artificial lighting adequate for		
Gener	Is the machine room artificial lighting adequate for maintenance purposes?	Yes 🗆	No □
Gener	Is the machine room artificial lighting adequate for maintenance purposes? Does the artificial lighting in the lift well comply with		
Gener (a) (b)	Is the machine room artificial lighting adequate for maintenance purposes? Does the artificial lighting in the lift well comply with Clause 1.7 of Part 2 of the Design Code?	Yes □ Yes □ Yes □	No □ No □ No □
Gener	Is the machine room artificial lighting adequate for maintenance purposes? Does the artificial lighting in the lift well comply with	Yes □	No □
Gener (a) (b) (c) (d)	Is the machine room artificial lighting adequate for maintenance purposes? Does the artificial lighting in the lift well comply with Clause 1.7 of Part 2 of the Design Code? Are the machine room conditions satisfactory? Are the provisions for ventilation of the machine room adequate?	Yes □	No □
Gener (a) (b) (c)	Is the machine room artificial lighting adequate for maintenance purposes? Does the artificial lighting in the lift well comply with Clause 1.7 of Part 2 of the Design Code? Are the machine room conditions satisfactory? Are the provisions for ventilation of the machine room	Yes □ Yes □	No □ No □

13.

(f)	Are the safety means of access to all items of equipment in accordance with the Part 2 of the Design Code and Co			
	Building Works for Lifts and Escalators?		Yes 🗆	No 🗆
	If no, state details			
(g)	Are the hoistway emergency doors (if fitted), in compliar			3.2
	of CoP on Building Works for Lifts and Escalators?	J.A. □	Yes 🗆	No 🗆
(h)	Documents (copy only) in respect of exemptions (if any)			
	shall be provided for reference	J.A. □	Yes 🗆	No 🗆
(i)	Are CCTV camera provided in lift car and CCTV monitor	s provic	led	
	in management office *and machine room*?	I.A. □	Yes 🗆	No 🗆

### 14. Declaration

I certify that on \_\_\_\_\_\_the lift and all its associated equipment or machinery was thoroughly examined, and found to be free from obvious defects and in safe working order. I confirm also that the design and construction of the lift and all its associated equipment or machinery complied with Part 2 of the Design Code, Works Code, and CoP on Building Works for Lifts and Escalators with the exception of the following items (if any, please specify).

Exceptions:

The information in this examination report is an accurate record of the examination carried out on the aforementioned date.

Remarks: Design Code means CoP on the Design and Construction of Lifts and Escalators Works Code means CoP for Lift Works and Escalator Works

Name & Registration No. of Registered Lift Engineer

Signature of Registered Lift Engineer

Date

# **EXAMINATION REPORT FOR ESCALATORS/PASSENGER CONVEYORS**

### 1. Description of Installation

	Envir Brand Escal Angle Vertie No. c Horiz Cont	tion (Address) onment: *Outdoor/ Indoor d Model ator Location IDdegree Rated Speed e of Inclinationdegree Rated Speed cal Risem Capacity of Exposed Steps between Combplates of Exposed Steps between Combplates contal Travel Distance of the Steps at the ends ract Power SupplyVoltHz of Balustrade: *Opaque / Tempered Glass / Others		Phase
	Mach Is yel Is sur	ninery Location: *Inside Truss / Outside Truss low band provided on *side edges / leading / trailing edge? np pump provided at *upper / lower station? note monitoring facilities provided?	Yes □ Yes □ Yes □	No □ No □ No □
2.	Statio	: Examination		
	(a)	Step         Has the step been certified in accordance with Clause 4.2.2         of Part 4 of the Design Code?         Brand	Yes 🗆	
	(b)	Handrail Has the handrail been certified in accordance with Clause 3 of Part 4 of the Design Code? N.A. BrandModel Certificate No. & Date of Issue Distance between Handrail Centrelines		
	(c) (d) (e)	Are the combplates and terminal guides adjusted properly? Has the brake(s) been examined and found to be in order? Is an auxiliary brake provided? N.A. $\Box$	Yes 🗆	No □ No □ No □
3.	Dyna	mic Tests		
	(a)	Has the operation brake been tested at *no load / full load *up / down condition? The stopping distance ismm	Yes 🗆	No 🗆

(b)	Does the auxiliary brake operate properly?	N.A. □	Yes 🗆	No 🗆
(c)	Does the overspeed device operate properly?	N.A. □	Yes 🗆	No 🗆

### 4. Driving Motor Current Tests

Driving Motor Manufacturer	Serial Number
Voltage at Time of Test	Rated Power

Form of Overload Protection:

		🗆 3-Phase circuit	breaker		Running Cu	irrent(A)
		□ Overloads in e	ach phase		Up	Down
		□ Others	•	No Load		
	Sepa	arate supply for ma	chine compartment/po	ower socket?	Yes 🗆	No 🗆
5.	Clea	rance				
	(a)	Is the clearance b	etween consecutive s	teps not		
	( )	exceeding 6mm?		I I	Yes 🗆	No 🗆
	(b)	Is the clearance b	etween step and adja	cent skirting		
		not exceeding 4n			Yes 🗆	No 🗆
	(c)		nce between step and	l both skirting		
	<i>(</i> ))	not exceeding 7n		6 6 d d	Yes 🗆	No 🗆
	(d)		etween the upper sur		V =	
	(-)		he comb teeth not exe		Yes 🗆	No 🗆
	(e)		tween the floor and t to the newel within th			
		0.1m to 0.25m?		le fallye of	Yes 🗆	No 🗆
		0.111110 0.2 51119				
6.	Insu	lation Resistance to	Earth			
	Pow	er System:	MΩ	Safety Circ	uit:	MΩ
		, <u>-</u>				
7.	Eart	hing				
	(a)	Are all metalworl	k enclosing conductor	s bonded to earth?	Yes 🗆	No 🗆

(b) Is the maximum continuity resistance to earth less than 0.5 $\Omega$ ? Yes  $\Box$  No  $\Box$ 

### **EXAMINATION REPORT FOR ESCALATORS/PASSENGER CONVEYORS**

#### 8. Half Hour Run

#### 9. General (Escalator\*/Passenger Conveyor\* Work)

Have the following items where fitted been checked for correct operation?

(a)	Emergency Stop Switches	·	Yes 🗆	No 🗆
(b)	Broken Step Chain Device		Yes 🗆	No 🗆
(c)	Broken Drive Chain*/Belt* Device		Yes 🗆	No 🗆
(d)	Handrail Inlet Switch		Yes 🗆	No 🗆
(e)	Non-reversal Device		Yes 🗆	No 🗆
(f)	Combplate Switch		Yes 🗆	No 🗆
(g)	Operation Brake		Yes 🗆	No 🗆
(h)	Step Sagging Device		Yes 🗆	No 🗆
(i)	Skirt Panel Switch		Yes 🗆	No 🗆
(j)	Phase Protection Device		Yes 🗆	No 🗆
(k)	Overspeed Device	N.A. 🗆	Yes 🗆	No 🗆
(I)	Broken Handrail Device	N.A. 🗆	Yes 🗆	No 🗆
(m)	Auxiliary Brake	N.A. 🗆	Yes 🗆	No 🗆
(n)	Inspection Door and Trap Door	N.A. 🗆	Yes 🗆	No 🗆
(o)	Handrail Speed Monitoring	N.A. 🗆	Yes 🗆	No 🗆
(p)	Chair Tensioning Device in excess ±20mm	N.A. 🗆	Yes 🗆	No 🗆
(q)	Missing Step or Pallet Device	N.A. 🗆	Yes 🗆	No 🗆
(r)	Lifting of the Braking System Monitoring Device	N.A. □	Yes 🗆	No 🗆

#### 10. General (Other Works)

Have	the following items been properly provided?			
(i)	Notices/pictographs for passengers		Yes 🗆	No 🗆
(ii)	Guards at adjacent building obstacles and			
	criss-cross escalators	N.A. □	Yes 🗆	No 🗆
(iii)	Rigid guard adjacent to escalator handrail	N.A. □	Yes 🗆	No 🗆
(iv)	Notice on access door to machinery spaces	N.A. □	Yes 🗆	No 🗆
Do tl	ne unrestricted landing areas comply with			
Clau	se 1.2.1.1 of Part 4 of the Design Code?		Yes 🗆	No 🗆
	(i) (ii) (iii) (iv) Do th	<ul><li>(ii) Guards at adjacent building obstacles and criss-cross escalators</li><li>(iii) Rigid guard adjacent to escalator handrail</li></ul>	<ul> <li>(i) Notices/pictographs for passengers</li> <li>(ii) Guards at adjacent building obstacles and criss-cross escalators</li> <li>(iii) Rigid guard adjacent to escalator handrail</li> <li>(iv) Notice on access door to machinery spaces</li> <li>N.A. □</li> <li>Do the unrestricted landing areas comply with</li> </ul>	<ul> <li>(i) Notices/pictographs for passengers</li> <li>(ii) Guards at adjacent building obstacles and criss-cross escalators</li> <li>(iii) Rigid guard adjacent to escalator handrail</li> <li>(iv) Notice on access door to machinery spaces</li> <li>N.A. □ Yes □</li> <li>Yes □</li> </ul>

(c) Does the clear height above \*step / belt comply with Clause 1.2.2 of Part 4 of the Design Code?

Yes 🗆 🛛 No 🗆

#### 11. Declaration

I certify that on \_\_\_\_\_\_ the escalator and all its associated equipment or machinery was thoroughly examined, and found to be free from obvious defects and in safe working order. I confirm also that the design and construction of the escalator and all its associated equipment or machinery complied with Part 4 of the Design Code, Works Code, and CoP on Building Works for Lifts and Escalators with the exception of the following items (if any, please specify).

Exceptions:

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Remarks: Design Code means CoP on the Design and Construction of Lifts and Escalators Works Code means CoP for Lift Works and Escalator Works

Name & Registration No. of Registered Escalator Engineer Signature of Registered Escalator Engineer

Date

\*Delete whichever is not applicable

#### 1. Description of Installation

	id	Address)ModelLift No
Lift L	_ocatio	Dn ID Length of Travel
Leve	ls Serv	redkg Rated Speedm/ dkg VoltPhaseH
Rate	d Load	dkg Rated Speedm/
Pow	er Sup	ply at lime of lestVoltPhaseH
Mac	hine Ko	oom Location: *above lift well / below lift well / at side Aream <sup>2</sup> Car internal heightr
Car	FIOOF P	arean² Car internal neightr
Exar	ninatio	ons and Tests
2.1	Susp	pension
	(a) '	Suspension Ropes
	. ,	Number Nominal Diametermr
		Have the suspension ropes attained the criteria for replacement in accordance wit
		Clause 5.4.7 of the Works Code? Yes 🗆 No 🗆
	(b)	Type of Anchorages: Car Counterweight
		Counterweight
		Have the anchorages been examined and found in goodworking condition?Yes <a>D</a> No <a>D</a>
2.2	Car '	Safety Gear Tests *N.A. / Fitte
2.2		e: The following test should be conducted with the car descending.
	(a)	Progressive Type
	(u)	Does the safety gear operate correctly if engaged at
		*inspection / rated speed with *100% / 125% of the
		rated load uniformly distributed in the lift car? N.A.  Yes  No
		State the speed:m/s
	(b)	Instantaneous Type
	( )	Does the safety gear operate correctly if engaged at rated speed
		with rated load uniformly distributed in the lift car? N.A. $\Box$ Yes $\Box$ No $\Box$
	(c)	The stopping distance ismm
2.3	Cour	nterweight Safety Gear Tests *N.A. / Fitte
Z. )		e: The following test should be conducted with the counterweight descending.
2.5		
2.5	(a)	Progressive Type
2.5	(a)	Progressive Type Does the safety gear operate correctly if engaged at
2.5	(a)	Progressive Type Does the safety gear operate correctly if engaged at *inspection / rated speed with the lift car empty? Yes Ves No C

OR

- (b) Instantaneous Type
   Does the safety gear operate correctly if engaged at
   rated speed with lift car empty?
   Yes □ No □
- 2.4 \*Overspeed Governor / Safety Rope / Suspension Failure Device Test (a) Car

\*N.A. / Fitted

Cai			N.A. / HILLE
(i)	Governor		
	Туре	Serial No	

	Tripping Speed (m/s)			
Device	Device Marked Measured			
Electrical				
Mechanical				

State how the governor was tested on the installation: \*Simulation / Free Fall / Actual Overspeed / Others\_\_\_\_\_\_

- (ii) \*Safety Rope / Suspension Failure Device Does the triggering mechanism operate correctly?
   Yes □ No □
- (b) Counterweight

\*N.A. / Fitted

(i) Governor Type\_\_\_\_\_

Serial No.\_\_\_\_\_

	Tripping Speed (m/s)			
Device	Marked	Measured		
Electrical				
Mechanical				

State how the governor was tested on the installation: Simulation\*/Free Fall\*/Actual Overspeed\*/Others\*\_\_\_\_\_

(ii) \*Safety Rope / Suspension Failure Device
 Does the triggering mechanism operate correctly?
 Yes □ No □

2.5 Brake Test

ls	the brake capable of stopping the machine when the lift is		
tr	avelling at its rated speed with 125% of the rated load?	Yes 🗆	No 🗆

2.6	Buffei (a)	d load at	rated	
		When the lift was brought into contact with the buffer with rated speed, was the operation satisfactory?	Yes 🗆	No 🗆
	(b)	Counterweight Buffer When the counterweight was brought into contact with the buff		
		empty at rated speed, was the operation satisfactory?	Yes 🗆	No 🗆
2.7	Insula (a)	tion Resistance to Earth and Earthing Lift MotorMΩ (b) Safety CircuitMΩ		
	(c)	Is the maximum continuity resistance to earth less than 0.5 $\Omega?$	Yes 🗆	No 🗆
2.8	Safety	/ Contacts/Circuits		
2.0	(a)	Have the contacts at each landing door been proved so		
		that when broken there is no movement of the car?	Yes 🗆	No 🗆
	(b)	Have the car door contacts been proved so that when		
		broken there is no movement of the car?	Yes 🗆	No 🗆
	(c)	Do the terminal stopping switches operate satisfactory?	Yes 🗆	No 🗆
	(d)	Do the stopping device in machine room and in pit		
		operate correctly?	Yes 🗆	No 🗆
	(e)	Does the earthing of the most remote contact (lock or push button) operate a fuse or trip a breaker?	Yes 🗆	No 🗆
		· · ·		

#### 2.9 Current and Speed Tests (at mid-point of travel)

	Lift Motor Speed	Lift Speed	Motor	<sup>-</sup> Input
	(rpm)	(m/s)	(V)	(A)
No Load Down				
Full Load Up				

### 2.10 Traction Checks

Does the car stop under emergency conditions

(a)	with the car empty when travelling upwards in the		
	upper part of the lift well at rated speed?	Yes 🗆	No 🗆
(b)	with 125% of the rated load when travelling downwards		
	in the lower part of the lift well at rated speed?	Yes 🗆	No 🗆

### 3. General

(a) Are the maximum load and warning notice displayed at each landing in compliance with Clause 10.1 and Clause10.3.1 of Part 3 of the Design Code?
 Yes □ No □

(b)	Are the emergency instructions displayed in the machine room?	Yes 🗆	No 🗆
(c)	Is the machine room lighting adequate for maintenance purpose?	Yes 🗆	No 🗆
(d)	Are the provisions for ventilating the machine room adequate?	Yes 🗆	No 🗆
(e)	Is each machine room door or trap door complied with		
	the CoP on Building Works for Lifts and Escalators?	Yes 🗆	No 🗆
(f)	Is the clear space in front of the controller not less than		
	900mm in depth? If no, state details	Yes 🗆	No 🗆
(g)	Is the access to machine room and to all equipment safe and		
	convenient?	Yes 🗆	No 🗆

### 4. Declaration

I certify that on \_\_\_\_\_\_ the lift and all its associated equipment or machinery was thoroughly examined, and found to be free from obvious defects and in safe working order. I confirm also that the design and construction of the lift and all its associated equipment or machinery complied with Part 3 of the Design Code, Works Code, and CoP on Building Works for Lifts and Escalators with the exception of the following items (if any, please specify).

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Name & Registration No. of Registered Lift Engineer Signature of Registered Lift Engineer

Date

\*Delete whichever not applicable

# NATION REPORT FOR PUZZLE TYPE MECHANIZED VEHICLE PARKING SYSTEMS (MVPS-PT)

#### 1. Basic Information and Description of Installation

Location (Address)					
Lift No					
Brand	Model		Maximum	Vertical Travel	m
Number of Levels					
Number of Columns_					
Number of Parking Sp					
Max. Allowable Car Dimensions (LxWxH)			<u> </u>		
Rated Load for Each Carrierkg					
Vertical Movement Rated Speedm/s Horizontal Movement Rated Speed			m/s		
Power Supply at Time of TestVoltPhaseHz					
Drive Type:Control Type:					
Model No. and Name of Manufacturer of the Controller					

#### 2. Static Examination – Mechanical

2.1	Suspe	ension		
	(a)	Suspension Ropes	N.A. 🗌	
		Certificate No. & Date of Issue		
		Number per carrier	Nominal Diameter	

Have the suspension ropes attained the criteria for Yes 🗌 No 🗌 replacement in accordance with Clause 5.4.8 of the Works Code?

(b)	Chains	N.A.
Brand	and ISO / model number of drive chain of liftir	ng motor
Brand	and ISO / model number of drive chain of slidi	ng motor
Brand	and ISO / model number of lifting chain	

Are all chains checked to be without visible cracks, well-Yes No lubricated and in good working condition? Are the elongations of all chains within the maximum Yes 🗌 No 🗌 allowable elongation recommended by the manufacturer?

#### 2.2 Brake

(a) T	/pe: *Drum/ Disc	*Single/ Double		
(b) D	oes the brake sustain a static ca	arrier with 125% of the	Yes 🗌	No 🗌
r	ited load?			
(T	his test is only required to be co	onducted in examinations with lo	oad.)	

#### 3. Static Examination - Electrical

3.1 Insulation Resistance to Earth

(a) Lifting Motors (attach supplementary sheet if necessary)

Carrier No.	Insulation Resistance to Earth (M $\Omega$ )

#### (b) Sliding Motors (attach supplementary sheet if necessary)

Carrier No.	Insulation Resistance to Earth ( $M\Omega$ )

Power System  $M\Omega$ (c)

(d) Control Circuit

MΩ

# **EXAMINATION REPORT FOR PUZZLE TYPE MECHANIZED VEHICLE PARKING SYSTEMS (MVPS-PT)**

3.2	<ul> <li>Earthing</li> <li>(a) Is the maximum continuity resistance to earth less than 0.5Ω?</li> <li>(b) Is the carrier connected to controller earthing terminal by a</li> </ul>	Yes 🗌	No 🗌
	separate conductor with proper sizing?	Yes 🗌	No 🗌
3.3	Protection of Conductors Is the fixed wiring in conduit or trunking (or fittings that ensure equivalent protection) throughout?	Yes 🗌	No 🗌
3.4	Phase Reversal and Phase Failure Devices Do the phase reversal and phase failure devices operate/ function correctly?	Yes 🗌	No 🗌
4. Dynamic	Tests		
(a)	Have all carriers been operated satisfactorily when running at *no load / full load?	Yes 🗌	No 🗌
(b)	Have all operation brakes been tested at *no load / full load when travelling at rated speed?	Yes 🗌	No 🗌
(c)	Have all gates been tested to operate satisfactorily?	Yes 🗌	No 🗌
(d)	Have all gate switches been proved that when the gates are not at the fully closed position, there is no movement of the carrier?	Yes 🗌	No 🗌
(e)	Do the safety hooks disengage when the carriers are lowered from the storage position?	Yes 🗌	No 🗌
(f)	Do the brakes engage and stop a moving carrier when power supply is cut from the system?	Yes 🗌	No 🗌

### 5. Measurements of the Electrical System

Particulars of Lifting Motors 5.1

Manufacturer	Serial Number
Voltage at Time of Test	Rated Current
Rated Power	

Particulars of Sliding Motors 5.2 Manufacturer\_\_\_\_\_ Serial Number Voltage at Time of Test Rated Current Rated Power

- Lifting Motor Current Tests (attach supplementary sheet if necessary) 5.3
  - (a) Tests with 100% and 110% rated load are only required to be conducted in examinations with load.
  - (b) These tests should be conducted with the carrier travelling upwards at rated speed.

Comion No.	Na laadu	1000/ material lagest	1100/ wated laad	Trin Catting of
Carrier No.	No load:	100% rated load:		1 5
	Motor input (A)	Motor input (A)	Motor input (A)	overcurrent relay (A)
				(If applicable)

### 6. Overload Detection

	(a) (b)	Overload detection is achieved by Does the overload device operate satisfactorily?	Yes 🗌	No 🗌	
7.	Safe	ty Hook Test			
	This	test is only required to be conducted in examinations with load.			
		the safety hooks catch a carrier carrying 100% of the downwards at rated speed?	Yes 🗌	No 🗌	
8. Emergency Stop Test with Load					
	This	test is only required to be conducted in examinations with load.			
	125	es a carrier travelling in down direction at rated speed and carrying % of the rated load stop safely under emergency oping conditions?	Yes 🗌	No 🗌	

# **EXAMINATION REPORT FOR PUZZLE TYPE MECHANIZED VEHICLE PARKING SYSTEMS (MVPS-PT)**

#### 9. Operational / Safety Devices

Are the following devices, where fitted, operating correctly?

Are the following devices, where fitted, operating correctly?						
	(a)	Emergency Stop Switches	N.A.	Yes 🗌	No 🗌	
	(b)	Anti-intrusion Sensors	N.A.	Yes 🗌	No 🗌	
	(c)	Dimension Checking Sensors	N.A.	Yes 🗌	No 🗌	
	(d)	Upper Limit Switches	N.A.	Yes 🗌	No 🗌	
	(e)	Lower Limit Switches	N.A.	Yes 🗌	No 🗌	
	(f)	Ultimate Limit Switches	N.A.	Yes 🗌	No 🗌	
	(g)	Horizontal Limit Switches	N.A.	Yes 🗌	No 🗌	
	(h)	Chain/Rope Slack Detection Switches	N.A.	Yes 🗌	No 🗌	
	(i)	Audio/Visual Alarms	N.A.	Yes 🗌	No 🗌	
	(j)	CCTV	N.A.	Yes 🗌	No 🗌	
	(k)	Emergency Lighting	N.A.	Yes 🗌	No 🗌	
	(I)	Intercom	N.A.	Yes 🗌	No 🗌	
	_					
10.	Genera			—	—	
	(a)	Are the maximum vehicle weight and dimensions		Yes 🗌	No 🗌	
		displayed in a conspicuous position in the proximity of the				
	(1.)	MVPS?			N	
	(b)	Are the operation instructions and warnings against		Yes 🗌	No 🗌	
		misuse displayed in a conspicuous position in the proximity				
	(-)	of the MVPS?			Nia 🗔	
	(c)	Are the contact details of the MVPS operator displayed in		Yes 🗌	No 🗌	
	(d)	a conspicuous position in the proximity of the MVPS? Does the manual-release function of the brake operate		Yes 🗌	No 🗌	
	(u)	correctly?				
	(e)	After pressing the emergency stop switch, does the MVPS		Yes 🗌	No 🗌	
	(e)	remain inoperable until the system has been reset and the				
		emergency stop switch has been released?				
	(f)	Are CCTVs connected to the CCTV monitors installed at		Yes 🗌	No 🗌	
	(1)	the office of the MVPS operator or fault call centre?				
	(g)	Are audio/visual alarms activated during movement of the		Yes 🗌	No 🗌	
	(9)	carriers/gates?				
	(h)	Is light level of 50 lux provided at locations where users		Yes 🗌	No 🗌	
	\···/	have access?		· 🗀	·· 🗀	
	(i)	Is light level of 200 lux provided at the control panel of the		Yes 🗌	No 🗌	
	. /	MVPS?				

#### 11. Declaration

I certify that on \_\_\_\_\_\_\_ the MVPS and all its associated equipment or machinery were thoroughly examined, and found to be free from obvious defects and in safe working order. I confirm also that the design and construction of the MVPS and all its associated equipment or machinery complied with the principles and requirements of **BS EN 14010:2003+A1:2009 Safety of machinery - Equipment for power driven parking of motor vehicles. Safety and EMC requirements for design, manufacturing, erection and commissioning stages** and the type approval document, where applicable, with the exception of the following items (if any, please specify).

Exceptions:

The information in this examination report is an accurate record of the examination carried out on the aforementioned date.

Name & Registration No. of Registered Lift Engineer Signature

Date