Form O1

INSPECTION CHECK LIST FOR NEW LIFTS

<table>
<tr><td>1</td><td colspan="2">Name of the Owner:</td><td colspan="2"></td></tr>
<tr><td>2</td><td colspan="2">Site Address:</td><td colspan="2"></td></tr>
<tr><td rowspan="2">3</td><td colspan="2" rowspan="2">Name and Address of Manufacturer/Installer:</td><td>Authorisation Number:</td><td></td></tr>
<tr><td>Validity:</td><td></td></tr>
<tr><td>4</td><td colspan="2">Layout Drawing Reference Number:</td><td colspan="2"></td></tr>
<tr><td>5</td><td colspan="2">Electrical Wiring Diagram Number:</td><td colspan="2"></td></tr>
<tr><td rowspan="6">6</td><td colspan="4">Conformity to Standards:</td></tr>
<tr><td colspan="2">IS 16819 : 2018 - Safety of machinery — General principles for design — Risk assessment and risk reduction:</td><td colspan="2">Yes/No/Not applicable*</td></tr>
<tr><td colspan="2">IS 17900 (Part 1) : 2022 - Lifts for the transport of persons and goods: Part 1 Safety Rules:</td><td colspan="2">Yes/No/Not applicable*</td></tr>
<tr><td colspan="2">IS 17900 (Part 2) : 2022 - Lifts for the transport of persons and goods: Part 2 Design rules, calculations, examinations and tests of lift components:</td><td colspan="2">Yes/No/Not applicable*</td></tr>
<tr><td colspan="2">IS 17900 (Part 3/Sec 1) : 2023 - Lifts for the Transport of Persons and Goods - Part 3 Specifications for Planning and Selection - Section 1 Passenger /Service /Hospital Bed/ Stretcher Lifts:</td><td colspan="2">Yes/No/Not applicable*</td></tr>
<tr><td colspan="2">Others (specify standard):</td><td colspan="2"></td></tr>
<tr><td>7</td><td colspan="4">Basic Characteristics:</td></tr>
<tr><td rowspan="3">7.1</td><td colspan="4">Number of Floors Served:</td></tr>
<tr><td>Total</td><td></td><td>Rear</td><td>Yes/No*</td></tr>
<tr><td>Front</td><td>Yes/No*</td><td>Side</td><td>Yes/No*</td></tr>
<tr><td>7.2</td><td colspan="2">Rated Load (kg):</td><td colspan="2"></td></tr>
<tr><td>7.3</td><td colspan="2">Number of Persons:</td><td colspan="2"></td></tr>
<tr><td>7.4</td><td colspan="2">Rated Speed (m/s):</td><td colspan="2"></td></tr>
<tr><td>7.5</td><td colspan="2">Location of Machine Room: Above well/Below</td><td colspan="2"></td></tr>
</table>

	Well/At side of well/ other*:	
8	Confirm that all the above are in accordance with the information on the layout drawing/wiring drawing.	Yes/No*

*Strike out whichever is not applicable

Enclosure

1	Safety Requirements - Well, Machinery Spaces and Pulley Rooms			
1.1	Arrangement of Lift equipment	Inside Machine room		
		Inside Well		
		Outside Well		
2	Inside Machine Room			
2.1	Confirm whether dimensions of machine room is sufficient to permit easy and safe working on equipment		Yes/No*	
2.2	Clear height for movement provided at machine room		……..m	
3	Notices and instructions			
3.1	Are main switch(es) and the light switch(es) identified?		Yes/No*	
3.2	Are detailed instructions to be followed in the event of lift breakdown, particularly concerning the use of the device for rescue operations and the emergency unlocking key for landing doors, provided in the machine room?		Yes/No*	
3.3	Confirm there is no equipment installed in the machine room which is not associated with safe operation of lift		Yes/No*	
3.4	Confirm whether ventilation is provided such that the motors and equipment, as well as electric cables, etc., are protected from dust, harmful fumes and humidity.		Yes/No*	
4	Lighting	At working areas	Provided/ Not Provided*	……. Lux
		Between working areas	Provided/ Not Provided*	……. lux
5	Have all openings into the well from the machine room been provided with means to prevent objects falling in?		Provided/ Not Provided*	
6	Confirm whether atleast one suspension point with the indication of the safe working load, provided at the		Provided/ Not Provided*	

	machine room?		
7	Working areas inside the lift well		
7.1	Confirm whether dimensions of working areas inside the lift well is sufficient to permit easy and safe working on equipment	Yes/No*	
7.2	Confirm there is no equipment installed in the well which is not associated with safe operation of lift	Yes/No*	
a.	Whether lighting provided above the car roof within its vertical projection, if so measured lux value	Provided/ Not Provided*	……. Lux
b.	Whether lighting is provided above the pit floor and above the pit platform (where provided), everywhere a person can stand, work and/or move between the working areas, if so measured lux value	Provided/ Not Provided*	……. lux
c.	Outside of the locations defined in a) and b), excluding shadows created by car or components.	Provided/ Not Provided*	……. lux
8	Working areas on the car roof		
8.1	Confirm whether there is risk of any kind of uncontrolled or unexpected car movement can be dangerous to persons, when maintenance/inspection of machinery is to be carried from car roof?	Yes/No*	
8.2	If yes, whether any mechanical device to prevent dangerous movement of the car is provided?	Provided/ Not Provided*	
9	Working areas in the pit		
9.1	Confirm whether there is risk of any kind of uncontrolled or unexpected car movement can be dangerous to persons, when maintenance/inspection of machinery is to be carried from lift pit?	Yes/No*	
9.2	If yes, whether any permanently installed device to mechanically stop the car with any load up to rated load and from any speed up to rated speed to create a free distance of at least 2 m between the floor of the working area and the lowest parts of the car, is provided?	Provided/Not Provided*	
9.3	When the above permanent mechanical device is used, confirm whether there is vertical gap of 0.5m to leave the pit safely?	Yes/No*	
10	Working areas outside of the well		
10.1	When the machinery is in the well and is intended to be	Yes/No*	

	maintained/inspected from outside of the well, are the dimensions of the working areas in accordance with 5.2.6.3.2.1 and 5.2.6.3.2.2, and construction and operation of inspection door is in conformity with 5.2.3.?			
11	Electric equipment in the pit and in machinery spaces and pulley rooms			
11.1	Is stopping device(s) visible and accessible on opening the door(s) to the pit, and from the pit floor?		Yes/No*	
11.2	Pit Depth	If less than or equal to 1.60m,	Yes/No*	
		Confirm the location of pit switch	Vertical distance above lowest landing floor	……m
			Vertical distance from pit floor	……m
			Horizontal distance from door frame inner edge	……m
		If greater than 1.60m	Yes/No*	
		Are two stop switches provided?	Yes/No*	
		Confirm the Location of Upper Pit Switch	Vertical distance above lowest landing floor	……m
			Horizontal distance from door frame inner edge	……m
		Confirm the Location of Lower Pit Switch	Vertical distance above pit floor operable from refugee space	……m
11.2	If no means to escape are provided for person(s) trapped in the well, alarm system is provided at where the risk of trapping exists (see 5.2.1.5.1, 5.2.6.4 and 5.4.7), operable from the refuge space		Provided/Not Provided*	
11.3	Confirm whether a switch accessible only to authorized persons and is placed close to each access point, at an appropriate height, controlling the lighting of the machinery spaces and pulley rooms provided?		Yes/No*	
11.4	Confirm whether at least one socket outlet provided		Yes/No*	

	at appropriate place for each working area?		
12	Access to Well and to Machinery Spaces and Pulley Rooms		
12.1	Whether access to well and to machinery spaces and pulley rooms provided as in Fig D-1 (Annexe D) of IS 17900(Part 1: 2022)	Yes/No*	
12.2	If so, confirm whether the specifications of Access and Emergency Doors — Access Trap Doors — Inspection Doors conform to 5.2.3 of IS 17900(Part 1: 2022) ? Attach drawings	Yes/No*	
12.3	Whether Notice is affixed on outside of trap doors giving access to machine and pulley room, near the access door and emergency door outside the well?	Yes/No*	
12.4	Whether Electrical warning sign is provided on enclosure and access door to all machine rooms.	Yes/No*	
13	Well		
13.1	Whether the dimensions and other civil details are as the National Building Code of India, SP 7?	Yes/No*	
13.2	Whether the provisions for well as described in clause 5.2.5 of IS 17900(Part 1): 2022 is complied with	Yes/No*	
14	General Provisions		
14.1	Are the doors imperforate?	Yes/No*	
14.2	When closed, does the landing and car doors, apart from the necessary clearances, completely close the landing and car entrances?	Yes/No*	
14.3	When closed, the clearance between door panels, or between panels and uprights, lintels or sills:	……mm	
14.4	Height of landing door & Car door	……m	
14.5	Is the Clear entrance of the landing doors is not more than 50 mm in width beyond the clear car entrance on both sides		
14.6	Minimum clear width of the entrance	……mm	
14.7	Confirm Sills, Guides, Door Suspension are as per Clause 5.3.3 of IS 17900: Part 1	Yes/No*	
15	Horizontal Door Clearances		
15.1	Horizontal distance between the sill of the car and sill of	……mm	

	the landing doors		
15.2	Horizontal distance giving access to the well between the leading edges of the car door and the landing doors during the whole of their normal operation	……..mm	
15.3	In case of combination of a hinged landing door and a folding car door, a hinged landing door and a horizontal sliding car door, and horizontal sliding car and landing doors, which are not mechanically coupled, is it possible to place a ball with a diameter of 0.15 m in any gap between the closed doors	Yes/No*	
16	Strength of Landings and Car Doors		
16.1	Do the Landing doors comply with the National Building Code of India, SP 7 requirements relevant to the fire protection for the building concerned?	Yes/No*	
16.2	Confirm the Mechanical strength of landing doors, with their locks, and car doors as per clause 5.3.3.5	Yes/No*	
16.3	In addition, for: a) landing doors with glass panels; car doors with glass panels; c) side frames of landing doors that are wider than 150 mm; Confirm the Mechanical strength of landing doors, with their locks, and car doors as per clause 5.3.5.3.4	Yes/No*	
17	Protection in Relation to Door Operation		
17.1	Confirm whether protective device to initiate re-opening of the door(s) in the event of a person crossing the entrance during the closing movement is provided?	Provided/Not Provided*	
17.2	Is Vision panel provided on power operated doors?	Yes/No*	
17.3	In case of manually operated vertical sliding, horizontally sliding or swing type doors, vision panel, in conformity with clause 5.3.7.2, is provided?	Provided/Not Provided*	
17.4	If car doors are automatic power-operated, a control button inside the car to reopen the doors when the car is at the landing, is provided	Provided/Not Provided*	
17.5	Confirm whether clause 5.3.6 of IS 17900 Part 1: 2022 is complied with	Yes/No*	
18	Local Landing Lighting and “Car Here” Signal Lights		
18.1	Measured Natural or artificial lighting of the landings in the vicinity of landing doors at floor level, such that a user can see ahead when they are opening the landing	…….lux	

	door to enter the lift, even if the car light has failed		
19	Locking and closed landing door check		
19.1	Protection against the risk of falling - It shall not be possible in normal operation to open a landing door (or any of the panels in the case of a multi-panel door) unless the car has stopped, or is on the point of stopping, in the unlocking zone of that door.	Yes/No*	
19.2	Protection against shearing - it shall not be possible to start the lift, nor keep it in motion, if a landing door, or any of the panels in the case of a multi-panel door, is open	Yes/No*	
19.3	Locking and emergency unlocking of landing and car doors provided?	Yes/No*	
19.4	Whether locking device is verified according to the requirements in 5.2 of IS 17900 (Part 2)?	Yes/No*	
19.5	Provision of emergency unlocking of landing and car door: Each of the landing doors shall be capable of being unlocked from the outside with the aid of an emergency unlocking key, which will fit the unlocking triangle	Yes/No*	
19.6	Emergency unlocking key length	…….	
19.7	Position of unlocking triangle	……	
19.8	Whether Electric safety device for proving the landing door closed is provided?	Yes/No*	
19.9	If the lift stops for any reason in the unlocking zone whether it possible with a force not greater than 300 N, to open the car and landing door by hand?	Yes/No*	
20	Car, counterweight and balancing weight		
20.1	Height of car - interior clear height of the car	……m	
20.2	Available car area, rated load, number of passengers		
20.3	Measured Net inside Car area	……. Sq.m	
20.4	Rated Load	……kg	
20.5	Number of passengers		
20.6	Is Minimum net area available for the rated load	Yes/ No*	
20.7	Monitoring device for Overloading of the car	Provided/ Not Provided*	

20.8	In the car, Are the following displayed: a) the manufacturer/installer's name; b) the installation serial number; c) the year of construction; d) the rated load of the lift in kilograms; e) the number of persons	Yes/ No*	
21	Walls, floor and roof of the car		
21.1	Whether the car is completely enclosed by walls, floor and roof except for permissible openings	Yes/ No*	
21.2	Tested for mechanical strength as per clause	Yes/ No*	
21.3	If Car walls made of glass or partly glass, are they laminated?	Yes/ No*	
21.4	If laminated glass Car walls tested for mechanical strength as per clause 5.4.3.2.3	Yes/ No*	
21.5	Is handrail provided at a height between 0.90 m and 1.10 m is provided and fastened independently from the glass, for car walls with glass placed lower than 1.10 m from the floor	Yes/ No*	
22	Car door, floor, wall, ceiling and decorative materials		
22.1	Is supporting structure of the car body made of non-flammable materials?	Yes/ No*	
22.2	Are Materials selected for car floor, wall and ceiling finishes difficult to ignite & meet the requirements of at least class 2 products as per IS 12777	Yes/ No*	
22.3	If Mirrors or other glass finishes are used within the car, does it comply with mode B or C according to Annex E of ISO 29584, if broken.	Yes/ No*	
22.4	Apron - Safety device used to ensure the user safety in order to close the gap between the pit and stop, when due to any problem the lift cabin do not stop properly is provided	Yes/ No*	
23	Car roof		
23.1	Whether the car roof shall resist a minimum force of 2 000 N at any position on an area of 0.30 m × 0.30 m without permanent deformation.	Yes/ No*	
23.2	Whether Toe Board provided on outer edge of car roof	Yes/ No*	
23.3	Whether Toe balustrade provided with handrail and an	Yes/ No*	

	intermediate bar at half the height of the balustrade on car roof?		
23.4	Height of balustrade	……..m	
24	Equipment on top of the car		
24.1	Whether control device for inspection operation operable within 0.30 m horizontally from refuge space is provided?	Yes/ No*	
24.2	Whether stopping device is provided in an easily accessible position and no more than 1 m from the entry point for inspection or maintenance personnel?	Yes/ No*	
24.3	Whether socket outlet provided?	Yes/ No*	
25	Ventilation		
25.1	Effective area of ventilation apertures provided at upper part of car	……sq.mm	
25.2	Effective area of ventilation apertures provided at lower part of car	……sq.mm	
25.3	Whether car Lighting is provided?	Yes/ No*	
25.4	Measured lux at car	……lux	
25.5	Whether Emergency lights with an automatically rechargeable emergency supply, which is capable of ensuring a lighting intensity of at least 20 lux for 1 h is provided on car roof, and inside the car?	Yes/ No*	
25.6	Whether emergency lighting turns ON when normal lighting goes off?	Yes/ No*	
25.7	Counterweight/balancing weight		
25.8	Material of filler weight	Metallic or non-metallic	
25.9	Whether filler weights carried in single frame?	Yes/ No*	
25.10	Factor of safety of steel frame or tie rods used	……	
26	Suspension means, compensation means and related protection means		
26.1	Suspension means - steel wire ropes, or elastomeric coated alternative suspension means, such as Coated Steel Belts		
26.2	Rope diameter	……..mm	

26.3	Number of ropes/CSB's used		
26.4	Whether tensile strength of rope or CSBs are tested as per relevant IS or ISO standards	Yes/ No*	
26.5	Whether the lift is provided with permanently mounted detection device or mechanism which will bring the elevator to stop in case of elongation or breakage of any belt.	Yes/ No*	
27	Sheave, pulley, drum and rope diameter ratios, rope terminations		
27.1	Ratio between the pitch diameter of sheaves, pulleys or drums and the nominal diameter of the suspension ropes or diameter of steel cord in case of CSBs	atleast 40	
27.2	Safety factor of the suspension means	12 for traction drive with 3 ropes/2 CSB's	
27.3	Whether ends of the ropes/CSB's are fixed to the car, counterweight or balancing weight, or suspension points of the dead parts of reeved ropes/CSB's by means of self-tightening wedge type sockets, ferrule secured eyes, or swage terminals	Yes/ No*	
28	Rope or CSB traction Whether the following conditions are fulfilled:		
28.1	the car shall be maintained at floor level without slip when loaded to 125 percent	Yes/ No*	
28.2	When emergency brake is applied, rope or CSB traction decelerates to a speed which is lower than or equal to the buffer designed?	Yes/ No*	
28.3	Whether the rope/CSB slip on to the traction sheave or machine is stopped, when empty car cannot be raised on stalling of car or counterweight	Yes/ No*	
28.4	Whether provision of Winding up of ropes for positive drive lifts complied	Yes/ No*	
29	Distribution of load between the ropes		
29.1	Whether automatic device is provided for equalizing the tension of suspension means at least at one of their ends	Yes/ No*	
29.2	Are the devices for adjusting the length of suspension means made in such a way that these devices cannot work themselves loose after adjustment	Yes/ No*	
30	Provision of Compensation means - for the weight of the suspension means in order to ensure		

	adequate traction or hoisting motor power in accordance with the following conditions		
30.1	for rated speeds not exceeding 3.0 m/s, compensation means such as chains, ropes or belts may be used;	Yes/ No/NA*	
30.2	for rated speeds exceeding 3.0 m/s, compensation ropes shall be provided;	Yes/ No/NA*	
30.3	for lifts whose rated speed exceeds 3.5 m/s there shall be, in addition, an anti-rebound device	Yes/ No/NA*	
30.4	for rated speeds exceeding 1.75 m/s, compensation means without tensioning shall be guided at the vicinity of the loop.	Yes/ No/NA*	
31	Factor of safety of compensation means used		
31.1	Whether Compensation ropes confirm to ISO 4344?	Yes/ No*	
32	Protection for sheaves, pulleys		
32.1	Nip guards for preventing accidental access to areas where ropes enter or leave the sheaves and pulleys provided	Yes/ No*	
33	Traction sheave and pulleys in the well above lowest landing level		
33.1	Whether retaining devices to prevent diverter pulleys from falling in the event of a mechanical failure is provided?	Yes/ No*	
33.2	If traction sheaves, pulleys are placed in the vertical projection of the car, whether clearances in the headroom are complied with	Yes/ No*	
34	Precautions against free fall, excessive speed, unintended car movement and creeping of the car General provisions		
34.1	Safety gear and Over Speed Governor provided for free fall and excessive speed in downward direction provided?	Yes/ No*	
34.2	Safety gear and Over Speed Governor provided for counter weight provided?	Yes/ No*	
34.3	Ascending Car overspeed protection means for excessive speed in upward direction provided?	Yes/ No*	
34.4	Means for Protection against unintended car movement is provided?	Yes/ No*	
35	Safety gear and its tripping means		

35.1	Whether safety gears are verified according to the requirements in 5.3 of IS 17900 (Part 2)	Yes/ No*	
35.2	Type of car safety gear	Progressive / Instantaneous Type*	
35.3	Type of counterweight safety gear	Progressive / Instantaneous Type*	
35.4	Constructional conditions of safety gears as per clause 5.6.2.1.6 is complied with?	Yes/ No*	
35.5	Did Tripping by overspeed governor for the safety gear occur at a speed at least equal to 115 percent of the rated speed?	Yes/ No*	……..m/ s
35.6	Direction of rotation, corresponding to the operation of the safety gear, is marked on the over speed governor?	Yes/ No*	
35.7	Overspeed Governor rope confirm to ISO 4344	Yes/ No*	
35.8	Safety factor of Overspeed Governor rope	……..	
35.9	overspeed governor accessible and reachable for inspection and maintenance?	Yes/ No*	
35.10	Does electric safety device initiate the stopping of the lift machine before the car speed reaches the tripping speed of the governor	Yes/ No*	
35.11	Does electric safety device prevent the starting of the lift while the overspeed governor is not in the reset position after the release of the safety gear?	Yes/ No*	
35.12	Does electric safety device prevents start of motor if there is breakage or excessive stretch of OSG rope?	Yes/ No*	
35.13	Is overspeed governor verified according to the requirements in 5.4 of IS 17900 (Part 2)?	Yes/ No*	
36	Pawl device (goods lift)		
36.1	Atleast one electrically retractable pawl is provided, designed in its extended position to stop the downward moving car against fixed supports?	Yes/ No*	
36.2	Whether electric safety device provided to prevent any downward movement of the car when a pawl is not in the retracted position?	Yes/ No*	
36.3	Ascending car over- speed protection means is provided to detect overspeed of the ascending car and cause the car to stop, or at least reduce its speed to that for which	Yes/ No*	

	the counterweight buffer is designed		
36.4	Is the Ascending car over- speed protection means active during normal operation, manual rescue operation and automatic rescue operation?	Yes/ No*	
36.5	Whether the ascending car overspeed protection means verified according to the requirements in 5.7 of IS 17900 (Part 2).	Yes/ No*	
37	Protection against unintended car movement		
37.1	Whether unintended car movement protection means detect unintended movement of the car, cause the car to stop, and keep it stopped	Yes/ No*	
37.2	The unintended car movement protection means stop the car in a distance under the following conditions:		
	a. the stopping distance shall not exceed 1.20 m from the landing where the unintended car movement has been detected	Yes/ No*	
	b. the vertical distance between the landing sill and the lowest part of the car apron shall not exceed 200 mm	Yes/ No*	
	c. distance between the car sill and the lowest part of the well wall facing the car entrance shall not exceed 200 mm	Yes/ No*	
	d. the vertical distance from the car sill to the landing door lintel, or from the landing sill to the car door lintel shall not be less than 1.0 m	Yes/ No*	
37.3	Whether unintended car movement with open doors protection means is verified according to the requirements in 5.8 of IS 17900 (Part 2).	Yes/ No*	Attach results
38	Guide rails		
38.1	Guiding of the car, counterweight or balancing weight provided	Yes/ No*	
38.2	Permissible stresses and deflections of guide rails permit safe operation of lift	Yes/ No*	
38.3	Combination of loads and forces taken into account	Yes/ No*	
38.4	Impact factors taken into account	Yes/ No*	
38.5	Calculation of Guide rails according to: a) 5.10 of IS 17900 (Part 2); or b) IS 800; or	Yes/ No*	

	c) Finite Element Method (FEM) done and confirmed		
39	Buffers		
39.1	Car and counterweight buffers provided?	Yes/ No*	
39.2	The impact area(s) of the buffer(s) on the pit floor shall be made obvious by an obstacle(s) (pedestal) of a height not less than 300 mm	Yes/ No*	
39.3	Type of buffer used		
39.4	Are buffers verified according to the requirements of IS 17900 (Part 2)	Yes/ No*	
40	Stroke of car and counterweight buffers		
40.1	Stroke of the car	……m	
40.2	Buffer designed to meet the stroke of car?	Yes/ No*	
41	Lift machinery and associated equipment		
41.1	Is Effective protection provided for accessible rotating parts of machinery, in particular: a) keys and screws in the shafts; b) tapes, belts; c) gears and pulleys; d) projecting motor shafts. Exception is made for traction sheaves with protections according to 5.5.7, hand winding wheels, brake drums and any similar smooth, round parts. Such parts shall be painted yellow, at least in part.	Yes/ No*	
42	Braking System - Type		
42.1	Is the brake released by a continuous manual operation? The operation can be mechanical (for example, lever) or electrical, powered by an automatically rechargeable emergency supply.	Yes/ No*	
42.2	Is the emergency supply sufficient to move the car to a landing, taking into consideration other equipment connected to this supply and the time taken to respond to emergency situations.	Yes/ No*	
42.3	Does the Braking function fail on failure of the release of the manual operation	Yes/ No*	
43	Emergency Operation		
43.1	Whether mechanical means, where the manual effort to	Yes/ No*	

	move the car to a landing does not exceed 150 N, is provided for emergency operation?		
43.2	Whether an electrical means with the power supply to move the car with any load to an adjacent landing within 1 h after a breakdown is provided	Yes/ No*	
43.3	Whether means to check the presence of car in the unlocking zone is provided	Yes/ No*	
43.4	Location of mechanical emergency operation means provided	machine room/machine cabinet/ emergency test panel	
43.5	If a hand winding wheel is provided for emergency operation, whether the direction of movement of the car is clearly indicated on the machine, close to the hand winding wheel If the wheel is not removable, the indication may be on the wheel itself.	Yes/ No*	
44	Electric installations and appliances General provisions		
44.1	Does the electrical equipment of the lift confirm with the requirements of IS 16504 (Part 1)?	Yes/ No*	
44.2	Protection against electric shock - Enclosures that do not otherwise clearly show that they contain electrical equipment that can give rise to a risk of electric shock, shall be marked with graphical symbol and the warning sign shall be plainly visible on the enclosure door or cover.	Yes/ No*	
44.3	Basic Protection - In the lift well, machinery spaces and pulley rooms, protection of the electrical equipment against direct contact is provided by means of casings providing a degree of protection of at least IP2X?	Yes/ No*	
44.4	when enclosures containing hazardous live parts are opened for rescue operations, whether access to hazardous voltage is prevented by minimum degree of protection of IPXXB	Yes/ No*	
44.5	When equipment is accessible to non-authorized persons, a minimum degree of protection against direct contact corresponding to IP2XD is provided?	Yes/ No*	
44.6	Whether additional protection by means of a residual	Yes/ No*	

	current protective device (RCD) with a rated residual operating current not exceeding 30 mA is provided for: a) socket outlets b) control circuits for landing controls and indicators and the safety chain with voltage higher than 50 V AC; c) circuits on the lift car with voltage higher than 50 V AC		
44.7	Insulation Resistance of electrical installation measured between all live conductor and earth except for PELV and SELV circuits rated 100 VA or less.	…….Mohms	
45	Protection of electrical equipment		
45.1	Whether Protection of motors against overheating is provided for each motor.	Yes/ No*	
46	Main switches		
46.1	For each lift, whether a main switch capable of breaking the supply to the lift on all the live conductors is provided.	Yes/ No*	
46.2	Location of main switch	Machine room/cabinet/emergency test panel	
46.3	While the main switch has disconnected the supply to the lift, check whether any automatic operated movement of the lift (for example, automatic battery powered operation) is prevented	Yes/ No*	
46.4	Electric wiring - Conformity IS 732 & 16504	Yes/ No*	
46.5	Cross section area of conductors used	…….	
46.6	Whether Conductors and cables are installed in conduits or trunkings or equivalent mechanical protection.	Yes/ No*	
47	Lighting and socket outlets		
47.1	Whether electric lighting supplies to the car, well, machinery spaces and pulley rooms, and emergency and test panel(s), supply to socket outlets required on the car roof, in the machinery spaces, in pulley rooms and in the pit is independent of the supply to the machine, either through another circuit, or through connection to the machine supply circuit on the supply side of the main switch	Yes/ No*	
47.2	Control of the supply for lighting and socket outlets		

47.3	Location of switch for lighting and socket outlets inside lift car, machine room and lift well and lift pit is as per clause 5.10.8	……..	
47.4	Protective earthing - Requirements of IS 732 complied	Yes/ No*	
47.5	Whether Electrical identification of all control and electrical components done	Yes/ No*	
47.6	Protection Against Electric Faults; Failure Analysis; Electric Safety Devices - conform to clause 5.11	Yes/ No*	
48	Controls — Final limit switches — Priorities		
48.1	Control of normal lift operations: are they placed in boxes such that no live parts are accessible	Yes/ No*	button/magnetic card
48.2	Whether Visible notices or signals to enable persons in the car to know at which landing the lift has stopped is provided.	Yes/ No*	
48.3	Whether Overload indication is provided	Yes/ No*	audible/visible signal
48.4	Whether, automatic power-operated doors are brought into the fully open position or manually operated doors remain unlocked during overload	Yes/ No*	
48.5	Whether readily operable inspection control station is provided to facilitate inspection and maintenance, on car roof and pit ?	Yes/ No*	
48.6	Whether inspection control station has a switch, direction push buttons UP and DOWN and RUN push button, stopping device	Yes/ No*	
48.7	Whether Final limit switches are provided at top and bottom of travel for traction and positive drive lifts?	Yes/ No*	
48.8	Whether Terminal Slow down and Normal Stopping Limit switches are provided to stop the car automatically within the limits of top car clearance and bottom run by (overtravel) from any speed attained in normal operation?	Yes/ No*	
49	Emergency alarm device and intercom system		
49.1	Whether, electric alarm bell(s) powered by the emergency supply located in building, audible outside the lift well (especially at the designated floor) and operable from inside the lift car, from car top and pit is provided?	Yes/ No*	

49.2	Whether an intercom system, or similar device, powered by the emergency supply is installed for communication between inside the car, someone outside the lift (security/reception/BMS room) and the place from which the emergency operation is carried out, if the lift travel exceeds 15 m or if direct acoustic communication in-between these locations is not possible	Yes/ No*	
49.3	Whether, automatic rescue device (ARD) operated on battery, to take the lift to the nearest possible landing in case of failure of main or primary power supply to the lift is provided	Yes/ No*	
49.4	For the lift with ARD, whether an audio-visual indicator is provided inside the lift car to alert the passenger(s) trapped inside the car that the lift is on emergency power or there is a mains power failure & they are being rescued. .	Yes/ No*	
49.5	Whether Emergency light arrangement in the lift car is operational at least till the end of rescue operation	Yes/ No*	
49.6	Capacity of ARD batteries: sufficient for minimum three consecutive rescue operations can be performed without recharging for the maximum travel distance between two consecutive served stops.	Yes/ No*	
49.7	Whether low battery indication is provided for ARD battery	Yes/ No*	
49.8	Whether ARD operates in case of failure of any one phase, or any two phases, or all the three phases and also during phase reversals	Yes/ No*	
49.9	Whether the fire protection requirements for lifts at MSB are complied with?	Yes/ No*	

*-Strike out whichever is not applicable.

Signature of the competent person/Inspecting Officer

Name

Designation