भारत सरकार / GOVERNMENT OF INDIA
रेल मंत्रालय / MINISTRY OF RAILWAYS
रेलवे बोर्ड / RAILWAY BOARD

No. 2013/Elect(G)/150/13/Pt.III(E.O.3502928) New Delhi, Dt. 13.08.2025

Principal Chief Electrical Engineers,
All Zonal Railways

Sub: Technical Audit of Lifts/Elevators provided over IR.

Ref: RDSO letter No. EEM0LKO(SPEC)/1/2024 dated 11/08/2025 & 12.08.2025

During recent Technical Audit of lifts conducted by RDSO at ECR, various discrepancies/defects has been observed. (technical Audit report of RDSO is attached as reference).

On the similar lines, it is advised to conduct rigorous audit of each and every lift by Sr DEE/ DEE/ G of Division by 31.08.25. In addition, concerned HODs(CEGE/CESE as the case may be) also to be nominated to carry out the audit of minimum 02 lifts at non HQ/ non divisional locations by 31.08.25. In this regard, the Template of the Technical Audit report of RDSO may be used but not limited to. These Audit inspection reports should be submitted to RB by **05.09.2025**

It is further advised to update the specific deficiency/shortcomings observed during audit and action taken/planned for the same with time line on the portal/Google sheet on daily basis. *(The link for the Google sheet shall be shared separately).*

13.08.25

(Nisha Manohar Patil)
Director Electrical Engg. (PS)
Railway Board
Phone: **011-47845419**
Email-**rbelectricaleem@gmail.com**

Fax : 0522-2452109
Telephone : 0522- 2452109
e-mail: edemrdso@gmail.com

सत्यमेव जयते

भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011
Government of India - Ministry of Railways
Research, Designs & Standards Organization,
Lucknow – 226011

No. RDSO-EEM0LKO(SPEC)/1/2024 Date: 11.08.2025

Secretary (Electrical)
Railway Board
Rail Bhawan
New Delhi-110001

(Kind Attention: Smt. Nisha Manhohar Patil, DEE/PS)

Sub: Technical audit of lifts.
Ref: ECR letter no. ECR/ELE/G/311C dated 05.08.2025

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1.0 Vide ref above the technical audit of lifts installed at Danapur Division (PPTA and RJPB) and Samastipur Division (NKE and BTH) were carried out jointly by team of RDSO and ECR.

2.0 The joint report has been reviewed and the main observations of the audit are as below:

DNR Div: Lifts have been installed as per the RDSO specification but type test had not been conducted by RDSO. There are many deviations from the specification of RDSO. Schedule maintenance record was not available, only break down records were available. Battery health monitoring facility was not available in all the lift.

i. **PPTA (PF-1, 4&5):** AMC has been given to non OEM.
- One lift was not working and maintenance of other lift was not up to the standard.
- Although ARD was working but its announcement system was not working.
- SMS alert, web monitoring, data downloading port and intercom facilities were not available in both lifts.
- Safety certificate, safety instructions and Emergency instructions were not available in both lifts.
- Fire safety alarm not working, trap door not available, and water ingress in all the electronic panels. Emergency Lights were working through UPS but emergency supply for fan was not available.

ii. **RJPB (PF1, 2/3 and 4):** Schedule maintenance record was not available, only break down records were available.

PF -1: (M/s Johnson make)
- ARD not working.
- SMS alert and web monitoring, Data downloading facilities not available.
- Safety certificate and Emergency instructions were not available.
- Trap door not available and marking of water ingress in the control panel. Emergency Lights were working through UPS but emergency supply for fan was not available.

PF 2-3, 4: (M/s Techno make)
- AMC has been given to non OEM.

- Although ARD was working but its announcement system was not working at PF no. 2-3.
- Over speed governor were not available. SMS alert, web monitoring, data downloading port and intercom facilities were not available in both lifts.
- Safety certificate, safety instructions and Emergency instructions were not available in both lifts.
- Fire safety alarm not working, trap door not available, and water ingress in all the electronic panels. Emergency Lights were working through UPS but emergency supply for fan not available.

SPJ Div: All the inspected lifts were not installed as per the RDSO specification and AMC has been given to the OEM. Battery health monitoring facility was not available in all the lift.

i. **BTH (PF-1 & 2):**
   - SMS alert, web monitoring, data downloading port and Intercom facilities were not available in both lifts.
   - Safety instructions and Emergency instructions were not available in both lifts.
   - Fire safety alarm not working, trap door not available and water ingress in the electronic panels. Emergency Lights and fan were working through ARD battery supply which is against the safety rule.
   - Main power supply MCB were just near the lift in open condition which can be tampered by any miscreant.

ii. **NKE (circulating area and PF-2/3):**
   - One lift on PF 2/3 was not working.
   - SMS alert, web monitoring, data downloading port and Intercom facilities were not available in both lifts.
   - Safety instructions and Emergency instructions were not available in both lifts.
   - Fire safety alarm not working and trap door not available. Emergency Lights and fan were working through ARD battery supply which is against the safety rule.

This is for your kind information.

Encl: As above.

(Gaurav Kumar)
Director/EM/RDSO/LKO

Joint note for Technical audit of passenger lift installed at Patliputra Station

The lift installed at platform no. 1, 4 & 5 were inspected. The findings are as under:

As per LOA the lift has to be manufactured as per RDSO specification no. RDSO/2013/EM/SPEC/0016 (Rev.0). No type test witnessed by RDSO.

Sl. No.	Item description	P.F no. 1	P.F no. 4 & 5
1.	Lift make	M/s Techno	M/s Techno
2.	Passenger capacity	15	15
3.	No. of landings	02	02
4.	P.O. no.	LOA no. EL-50-DNR-open-27-2019-20 dated 23.03.2020	LOA no. EL-50-DNR-open-27-2019-20 dated 23.03.2020
5.	Commissioning date	21.02.2022	21.02.2022
6.	AMC status	Under AMC. LOA no. EL-50-DNR-OPEN-03-2024-25/00998100111022	Under AMC. LOA no. EL-50-DNR-OPEN-03-2024-25/00998100111022
7.	AMC party name	M/s Balaji Engineering works, Patna Contact no. 9471231420	M/s Balaji Engineering works, Patna Contact no. 9471231420
8.	AMC start date	23.08.2024	23.08.2024
9.	Copy of maintenance schedule	Not available	Not available
10.	Condition of lift	Under maintenance by Civil as well as electrical deptt.	Working
11.	Safety instructions	Not available	Not available
12.	Emergency safety instructions	Not available	Not available
13.	Emergency light and fan	Under maintenance	Only lights are being feed through UPS. No fan
14.	ARD	Under maintenance	Working
15.	ARD response time	---	7 second
16.	ARD function completed	---	45 seconds
17.	Mechanical lever/electrical switch	Only mechanical lever provided	Only mechanical lever provided and working No electric
18.	Brake	-----	Working
19.	Controller	Make: Arkel	Make: Arkel
20.	SMS alert and web monitoring facility	Not available	Not available
21.	Data downloading port	Not available	Not available
22.	Fault display unit	Available	Available and working
23.	Buffers	Spring type	Spring type
24.	Landing door condition	Peep of holes provided.	Working. Peep of holes provided.
25.	Landing door locking	Both mechanical and electronic lock available.	Both mechanical and electronic lock available and working.
26.	No of car door	02	02
27.	Car door locking	Only electronic lock available.	Only electronic lock available and working
28.	Safety certificate	Not available	Not available

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PPG 08/08/2025
वरीय अनुभाग अभियंता (विद्युत)
Sr. Section Engineer (Elect.)
पाटलीपुत्रा जं० / PATL JN

29.	UPS battery	5 nos. 7Ah 12V	5 nos. 7Ah 12V
30.	Battery health monitoring	Not available	Not available
31.	Over speed governor	Provided	Provided
32.	Hall position indicator	Provided	Working
33.	Hall call button	provided	Working
34.	Car buttons	Provided	Few buttons are damaged
35.	Car condition	People spitted	People spitted
36.	Emergency contact no.	Provided	Provided
37.	Fire safety arrangements	Fire alarm provided.	Alarm provided. Not working.
38.	Alarm	Provided	Not working
39.	Intercom	Not provided	Not provided
40.	Levelling	Lift not working	Under limit
41.	Re-levelling device	Provided	Provided
42.	Trap door	Not available	Not available
43	Safety gears	Provided	Provided
44.	Handrail in car	Only one side and height is more than 1 meter.	Only one side and height is more than 1 meter.
45.	Mirror	Not provided	Not provided
46.	CCTV	Not available. Neither inside nor outside.	Not available. Neither inside nor outside.
47.	Rain water ingress	Water ingress is reported.	Water ingress is reported.
48.	Shaft	Steel	Steel
49.	IR NIYANTRAC	Not available	Not available
50.	Announcement system	Provided	Not working
51.	Safety switch in pit	Provided	Provided

08/08/25
(Dinesh Kumar)
SSE/Elect/RDSO

08/08/2025
(Ramesh Prasad)
SSE/Elect/RPTA/DNR/ECR
वरीय अनुभाग अभियंता (वि.)
Sr. Section Engineer (Elect.)
पाटलीपुत्रा जं० / PATL JN.

Joint note for Technical audit of passenger lift installed at Rajendra Nagar Station.

The lift installed at platform no. 1, 2/3 and 4 were inspected. The findings are as under:

As per LOA the lift (M/s Techno) has to be manufactured as per RDSO specification no. RDSO/2013/ EM/ SPEC/ 0016 (Rev.0). No type test witnessed by RDSO.

CPWD specification for lift supplied by M/s Johnson.

Sl. No.	Item description	P.F no. 1	P.F no. 2&3	P.F no. 4
1.	Lift make	M/s Johnson Lift Pvt. Ltd	M/s Techno	M/s Techno
2.	Passenger capacity	15	15	15
3.	No. of landings	02	02	02
4.	P.O. no./ LOA no.	EL/50/DNR/Open/1/ 2016-17 dated 01.08.2016	LOA no. EL-50-DNR-open-27-2019-20 dated 23.03.2020	LOA no. EL-50-DNR-open-27-2019-20 dated 23.03.2020
5.	Commissioning date	13.11.2020	2022	2022
6.	AMC status	Under AMC	Under AMC, LOA no. EL-50-DNR-OPEN-03-2024-25/00998100111022	Under AMC, LOA no. EL-50-DNR-OPEN-03-2024-25/00998100111022
7.	AMC party name	M/s Johnson	M/s Balaji Engineering works, Patna Contact no. 9471231420	M/s Balaji Engineering works, Patna Contact no. 9471231420
8.	AMC start date	— —	23.08.2024	23.08.2024
9.	Copy of maintenance schedule	Not available	Not available	Not available
10.	Condition of lift	Working	Working	Working
11.	Safety instructions	Available	Not available	Not available
12.	Emergency safety instructions	Not available	Not available	Not available
13.	Emergency light and fan	Only lights are being feed through UPS	Only lights are being feed through UPS.	Only lights are being feed through UPS.
14.	ARD	Not working	Working	Working
15.	ARD response time	--	9 second	7 second
16.	ARD function completed	--	47 seconds	45 seconds
17.	Mechanical lever/ electrical switch	Only electrical switch. Not working	Only mechanical lever provided and working	Only mechanical lever provided and working
18.	Brake	Working	Working	Working
19.	Controller	Not verifiable	Make: Pixel control	Make: Arkel
20.	SMS alert and web monitoring facility	Not available	Not available	Not available
21.	Data downloading port	Not available	Not available	Not available
22.	Fault display unit	Available and working	Available and working	Available and working
23.	Buffers	Spring type	Spring type	Spring type
24.	Landing door condition	Working. No holes.	Working. Peep of holes provided.	Working. Peep of holes provided.
25.	Landing door locking	Both mechanical and	Both mechanical and	Both mechanical

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		electronic lock available and working.	electronic lock available and working.	and electronic lock available and working.
26.	No of car door	02	02	02
27.	Car door locking	Only electronic lock available and working	Only electronic lock available and working	Only electronic lock available and working
28.	Safety certificate	Not shown	Not available	Not available.
29.	UPS battery	Not accesible	5 nos. 7Ah 12V	5 nos. 7Ah 12V
30.	Battery health monitoring	Not available	Not available	Not available
31.	Over speed governor	Provided	Not provided	Not provided
32.	Hall position indicator	Working	Working	Working
33.	Hall call button	Working	Working	Working
34.	Car buttons	Few buttons are damaged	Few buttons are damaged	Few buttons are damaged
35.	Car condition	People spitted.	People spitted.	People spitted.
36.	Emergency contact no.	Provided	Provided	Provided
37.	Fire safety arrangements	Fire alarm switch provided and working	Not available	Provided. But not working.
38.	Alarm	Working	Not working	Not working
39.	Intercom	Provided	Not provided	Not provided
40.	Levelling	Under limit	Under limit	Under limit
41.	Re-levelling device	Provided	Provided	Provided
42.	Trap door	Not available	Not available	Not available
43.	Safety gears	Provided	Not provided	Not provided
44.	Handrail in car	Provided	Not provided	Not provided
45.	Mirror	Not provided	Not provided	Not provided
46.	CCTV	Not available. Neither inside nor outside.	Not available. Neither inside nor outside.	Not available. Neither inside nor outside.
47.	Rain water ingress	Water ingress is reported.	Water ingress is reported.	Water ingress is reported.
48.	Shaft	RCC	Steel. Some covering sheets are damaged	Steel. Some covering sheets are damaged.
49.	IR NIYANTRAC	Not available	Not available	Not available.
50.	Announcement system	Working	Not working	Working. Voice is low.
51.	Safety switch in pit	Provided	Provided	Provided

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(Dinesh Kumar)
SSE/Elect/RDSO

(Bishwajit Singh)
SSE/Elect/PNBE/DNR/ECR

Joint Report

Sub: Technical Audit of Lifts at Narkatiaganj and Betia Railway Station of ECR.

Ref: ECR letter no. ECR/ELE/G/311C dated: 05.08.2025.

Technical Audit of Lifts at Narkatiaganj and Bettiah Railway Station has been carried out jointly with RDSO and ECR on 07.08.2025 and 08.08.2025. During audit following observation are made:

i. The following lift has been provided as per ECR LOA No. SAMASTIPUR DIVISION-ELECTRICAL / EL-G-10-ET-20-21 / 01333730027079 dated: 15.10.2020.

Name of Station	Lift Make	No. of Lift	Capacity	Platform No.	Date of Commissioning
Narkatiaganj (NKE)	M/s Techno Industries Pvt. Ltd. / Ahmedabad	02	13 Person	Circulating Area	17.01.2024
			13 Person	02/03	17.01.2024
Bettiah (BTH)	M/s Techno Industries Pvt. Ltd. / Ahmedabad	02	13 Person	01	01.11.2023
			13 Person	02	01.11.2023

ii. Lift at Plat form no. 02/03 of Narkatiaganj Railway Station is not working due to fault. This fault has been attand by AMC person but could not resolve the fault.

SN	Parameter	Station Name			
		Narkatiaganj		Bettiah	
		Platform		Platform	
		Circulating Area	02/03	01	02/03
1.	AMC Status	Under AMC by M/s Techno Industries Pvt. Ltd. / Ahmedabad		Under AMC by M/s Techno Industries Pvt. Ltd. / Ahmedabad	
2	AMC Start Date	01 year from the date of fitment of lift		01 year from the date of fitment of lift	
3.	Copy of maintenance schedule	Available			
4.	Last of maintenance schedule	06.06.2025	06.06.2025	18.07.2025	18.07.2025
5	Status of lift	Working	Not working	Working	Working
6.	Safety instruction	Not Available		Not Available	
7.	Emergency Safety instruction	Not Available		Not Available	
8.	Provision of intercom	Not Available		Not Available	
9.	Provision of emergency light & Fan	Working	-	Working	
10.	ARD working	Working	-	Working	
	ARD Response time	04 Sec.	-	-	
	ARD function completer	38 sec.	-	-	

11.	Mechanical lever / Electrical Switch	Mechanical lever		Mechanical lever	
12.	Motor & Brake make	M/s Techno make		M/s Techno make	
13.	Controller	Make-MOTCUBE		Make-MOTCUBE	
14.	SMS alert facility	Not Available		Not Available	
15.	Web monitoring	Not Available		Not Available	
16.	Fault display unit	Available		Available	
17.	Buffers	Spring type buffer available		Spring type buffer available	
18.	Landing Door Condition	Working		Working	
19.	Landing door locking	Electronic and mechanical lock provided and working properly	-	Electronic and mechanical lock provided and working properly	
20.	Car door condition	Working (Car with 02 door)	-	Working (Car with 02 door)	
21.	Car door locking	Only electronic lock available and working properly.	-	Only electronic lock available and working properly.	
22.	Safety Certificate	Available		Available	
23.	Battery health monitoring facility	Not Available		Not Available	
24.	No. of battery and capacity	05 No. 12V 7AH		05 No. 12V 7AH	
25.	Over speed govener	Available		Available	
26.	Hall position indicator	Available		Available	
27.	Hall call button	Available		Available	
28.	*Car panel button	Working		Working	
29.	Emergency contact no.	Outside available	Outside available	Outside and Inside available	Outside and Inside available
30.	***Fire safety arrangement		-	-	Not working
31.	Alarm	Working	-	Working	Working
32.	****Leveling	In level	-	Not in level	In level
33.	Trap door	Not Available		Not Available	
34.	Hand Rail in Car	Available (One Side)		Available (One Side)	
35.	Mirror	Not Available		Not Available	
36.	Peep of holes	Not Available		Not Available	
37.	Announcement system	It works but the sound is very low	-	It works but the sound is very low	It works but the sound is very low
		RCC	RCC	RCC	RCC
38.	Shaft	Not available inside		Not available inside	
39.	CCTV	Out side Available		Out side Available	
40.	IR-NIYANTRAC	Not Available		Not Available	
41.	**Rain Water Ingress	Not Found		Not Found	

Other observation:

- * The emergency button inside the lift car was not working.
- **Water leakage was found inside the controller of the lift of platform no. 02 of Bettiah Railway station.
- *** A fire safety switch has been provided near the exit on the ground floor whose glass was broken. There was no response when the switch was operated.
- ****Platform no. 1 of Bettiah Railway Station During working of ARD (Emergency operation) height between floor and car floor was found to be 38 mm in place of ±10 mm.

8-8-25

(Shi Sujeet Kumar)
SSE/SPJ/ECR

08/8/2025

(Rajiv Kumar)
SSE/RDSO/LKO

Fax : 0522-2452109
Telephone : 0522- 2452109
e-mail: diremrdso@gmail.com

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भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011
Government of India - Ministry of Railways
Research, Designs & Standards Organization,
Lucknow – 226011

No. RDSO-EEM0LKO(SPEC)/1/2024 Date: 12.08.2025

Secretary (Electrical)
Railway Board
Rail Bhawan
New Delhi-110001

(Kind Attention: Smt. Nisha Manhohar Patil, DEE/PS)

Sub: Technical audit of lifts.
Ref: ECR letter no. ECR/ELE/G/311C dated 05.08.2025

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1.0 Vide ref above the technical audit of lifts installed at Danapur Division (PPTA and RJPB) and Samastipur Division (NKE and BTH) was carried out jointly by team of RDSO and ECR.

2.0 The joint report has been reviewed in reference to RDSO specification. Following noncompliance/deficiencies are observed in the audit:

Common Observations at all locations:

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	SMS alert, web monitoring, data downloading port were not available.	6.11.11, 6.11.10, 6.24.1
2.	Emergency instructions were not available.	6.9.3.9
3.	Trap door was not provided	6.9.5.2
4.	Low battery monitoring facility was not available.	6.23.4.1
5.	Water ingress on electronic panel reported	---

DNR Div: Lifts have been procured as per the RDSO specification but type test had not been conducted by RDSO. Schedule maintenance record was not available, only break down records were available. The station wise findings are as below:

i. **PPTA (PF-1, 4&5):** AMC has been given to non OEM.

- One lift was not working and maintenance of other lift was below standard.

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	Announcement system not working during ARD application	6.22.6
2.	Intercom facilities were not available	6.15.2
3.	Safety certificate not available	2.4
4.	Safety instructions not available	6.9.3.9
5.	Emergency supply for fan was not available	6.21.10
6.	Fire safety alarm not working	---

ii. **RJPB (PF1, 2/3 and 4):** Schedule maintenance record was not available, only break down records were available.

PF -1: (M/s Johnson make)

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	Announcement system not working during ARD application	6.22.6

2.	ARD was not working	
3.	Safety certificate was not available	2.4
4.	Emergency supply for fan was not available	6.21.10

PF 2-3, 4: (M/s Techno make)

- AMC has been given to non OEM.

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	Announcement system not working during ARD application at PF 2/3	6.22.6
2.	Over speed governor not provided	6.7
3.	Intercom facilities were not available	6.15.2
4.	Safety instructions were not available	6.9.3.9
5.	Emergency supply for fan was not available	6.21.10
6.	Fire safety alarm was not working	---
7.	Safety certificate was not available	2.4

SPJ Div: All the inspected lifts were not procured as per the RDSO specification and AMC has been given to the OEM.

i. **BTH (PF-1 & 2):**

- Main power supply MCB were just near the lift in open condition which can be tampered by any miscreant.
- Emergency Lights and fan were working through ARD battery supply which is not desirable(cl. no. 6.21.10)

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	Intercom facilities were not available	6.15.2
2.	Safety instructions were not available	6.9.3.9
3.	Fire safety alarm was not working	---
4.	Emergency supply for light and fan was taken from ARD instead of UPS	6.21.10

ii. **NKE (circulating area and PF-2/3):**

- One lift on PF 2/3 was not working.
- Emergency Lights and fan were working through ARD battery supply which is not desirable (cl. no. 6.21.10)

S. no.	Deficiencies observed	Noncompliance of cl. no. of RDSO spec
1.	Intercom facilities were not available	6.15.2
2.	Safety instructions were not available	6.9.3.9
3.	Fire safety alarm was not working	---
4.	Emergency supply for light and fan was taken from ARD instead of UPS	6.21.10

This is for your kind information.

Encl: As above.

28/25

(Gaurav Kumar)
Director/EM/RDSO/LKO