## F. No. 8(1)/2021-HEI Government of India Ministry of Heavy Industries HEI Division

Udyog Bhawan, New Delhi Dated: 3<sup>rd</sup> April, 2024

### Circular

# Subject: Electrical Equipment (Quality Control) Order-Reg.

The undersigned is directed to place the draft of Electrical Equipment (Quality Control) Second Amendment Order, 2024 (copy attached) consisting of a phased implementation plan for the products under the scope of EEQCO on the website of the Ministry of Heavy Industries (https://heavyindustries.gov.in/) for public comments, if any.

2. The comments may be sent through email to divhei-dhi@gov.in by 10<sup>th</sup> April 2024 to this Ministry.

(Udai Bhan Singh) Under Secretary to Govt. of India

# [To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii)] Ministry of Heavy Industries

### Government of India

### Order

New Delhi, the ---, 2024

- S. O. (E).— In exercise of the powers conferred by section 16, read with section 25 of the Bureau of Indian Standards Act, 2016 (11 of 2016), the Central Government, after consulting the Bureau of Indian Standards, is of the opinion that it is necessary or expedient so to do in the public interest, hereby makes the following Order to amend the Electrical Equipment (Quality Control) Order, 2020 and Electrical Equipment (Quality Control) Amendment Order, 2023 namely:-
- 1. Short title and commencement. (1) This Order may be called the Electrical Equipment (Quality Control) Second Amendment Order, 2024.
- (2) It shall come into force from the date as mentioned in column (5) of the Table to this Order.
- 2. For the Table to the said Order, the following Table shall be substituted, namely: -

"TABLE

S1. No.	Electrical Equipment (Goods)	Indian Standard s	Title of Indian Standard	Date of Implementatio	Product Category	Specific Requirement
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.1.(a )	Low - Voltage switchgear and controlgear: Circuit - Breakers	IS/IEC 60947 : Part 2 : 2016	Low - Voltage switchgear and controlgear: Part 2 circuit - Breakers (First Revision)	10 <sup>th</sup> May 2024 (under review)	AC Circuit - Breakers (Category A) - All ratings upto 630 A,	rcuit - All test as per IS/IEC 60947 : ory A) Part 2 : 2016 except the test

					unto 4401	C. M.
					upto 440V	
1.1.(b	Low - Voltage	e IS/IEC	Low - Voltage	10th M 2026	AC	of this table.
)	switchgear and		switchgear and	2		Electromagne
	controlgear:	Part 2:			Breakers	c compatibilit
	C:	- 2016	controlgear: Part		(Category A)	S7   61
	Breakers	2010	2 circuit -		- All ratings	mentioned in
	DICARCIS		Breakers (First		upto 630 A,	Annex J and
			Revision)		upto 440V	All tes
					AC	specified for
						specific
						application as
						mentioned in
						the
						Annexure(s) of
						the IS/IEC
						60947 : Part 2 :
						2016
1.2.(a	Low - Voltage	IS/IEC	Low - Voltage	10th May 2025	AC Circuit -	All test as per
)	switchgear and	60947 :	switchgear and		Breakers	IS/IEC 60947 :
	controlgear:	Part 2:	controlgear: Part		(Category -	Part 2 : 2016
	Circuit -	2016	2 circuit -		A)- AII	except the test
	Breakers		Breakers (First		ratings above	listed below in
			· Revision)		630A, upto	Sr. No. 1.2. (b)
					440V AC	of this table.
1.2.(b	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2026*	AC Circuit -	
)	switchgear and	60947 :	switchgear and	,	Breakers	Electromagneti
	controlgear:	Part 2:	controlgear: Part		(Category -	c compatibility (EMC)
	Circuit -	2016	2 circuit -		A)- All	
	Breakers		Breakers (First		ratings above	mentioned in
			Revision)			Annex J and
			,		630A , upto 440V AC	All test
					440V AC	specified for
				8		specific
						application as
						mentioned in
					1	the
						Annexure(s) of
						the IS/IEC
						60947 : Part 2 :
3.(a ]	Low - Voltage	IS/IEC	r			2016
				10 <sup>th</sup> May 2025	AC Circuit	All test as per
	wittigear and	60947 :	switchgear and		Breakers	IS/IEC 60947 :

	controlgear:	Part 2:	controlgear: Part		100	
	Circuit -	2016	2 circuit -		(Category -	Part 2 : 2016
	Breakers	2010		/9	B)- All	except the test
	breakers		Breakers (First		ratings upto	listed below in
			Revision)		2000 A, upto	Sr. No. 1.3.(b)
100	, , , , , , , , , , , , , , , , , , ,	70./7=0			440V AC	of this table.
1.3.(b	Low - Voltage		Low - Voltage	10 <sup>th</sup> May 2026*	AC Circuit	Electromagneti
)	switchgear and	60947 :	switchgear and		Breakers	c compatibility
	controlgear:	Part 2:	controlgear: Part		(Category -	(EMC)
	Circuit -	2016	2 circuit -		B)- AII	mentioned in
	Breakers		Breakers (First		ratings upto	Annex J and
			Revision)		2000 A, upto	All test
					440V AC	specified for
						specific
						application as
						mentioned in
						the
						Annexure(s) of
						the IS/IEC
						60947 : Part 2 :
					8	2016
1.4	Low - Voltage	IS/IEC	Low - Voltage	10th May 2026	AC Circuit -	All test as per
	switchgear and	60947 :	switchgear and		Breakers	IS/IEC 60947 :
	controlgear:	Part 2:	control gear:		(Category -	Part 2 : 2016.
	Circuit -	2016	Part 2 circuit -		A)- All	14112.2010.
	Breakers		Breakers (First		ratings,	
			Revision)		above 440V	
					AC	
1.5	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2026	AC Circuit -	A11 toot
	switchgear and	60947 :	switchgear and	10 Way 2020	Breakers	All test as per
	controlgear:	Part 2:	controlgear: Part			IS/IEC 60947 :
	Circuit -	2016	2 circuit -		(Category- B	Part 2 : 2016.
	Breakers	_010	Breakers (First		)- ratings	
			Revision)		above 2000A,	
			176.121011)		Upto 440V	
					AC	
1.6	Low - Voltage	IS/IEC	Low - Voltage	10th Max- 2007	A.C.C: ':	4.17
	switchgear and	60947 :	switchgear and	10 <sup>th</sup> May 2027	AC Circuit -	All test as per
	controlgear:	Part 2:	controlgear: Part		Breakers	IS/IEC 60947 :
	Circuit -	2016			(Category -	Part 2 : 2016.
	Breakers	2010			B)- All	
					and the second	1
	breakers		Breakers (First Revision)		ratings,	

					above 440V AC	
1.7	Low - Voltage switchgear and controlgear:		Low - Voltage switchgear and controlgear: Part 2 circuit -	10 <sup>th</sup> May 2027	DC Circuit - Breakers (Category - A)- All	All test as per IS/IEC 60947: Part 2: 2016.
	Breakers		Breakers (First Revision)		ratings	
1.8	Low - Voltage switchgear and controlgear: Circuit - Breakers	IS/IEC 60947: Part 2: 2016	Low - Voltage switchgear and controlgear: Part 2 circuit - Breakers (First Revision)	10 <sup>th</sup> May 2027	DC Circuit - Breakers (Category - B) - All ratings	All test as per IS/IEC 60947: Part 2: 2016.
2.1 (a)	Low - Voltage switchgear and controlgear: switches, disconnectors, switch disconnectors and fuse - Combination units	IS/IEC 60947: Part 3: 2020	Low - Voltage switchgear and controlgear: Part 3 switches, disconnectors, switch disconnectors and fuse - Combination units	10 <sup>th</sup> May 2025	All AC utilization categories Upto 250A, Upto 440V AC	All test as per IS/IEC 60947: Part 3: 2020. except the test listed below in Sr. No. 2.1.(b) of this table.
2.1 (b)	Low - Voltage switchgear and controlgear: switches, disconnectors, switch disconnectors and fuse - Combination units	IS/IEC 60947: Part 3: 2020	Low - Voltage switchgear and controlgear: Part 3 switches, disconnectors, switch disconnectors and fuse - Combination units	10 <sup>th</sup> May 2026*	AII AC utilization categories Upto 250A, Upto 440V AC	Electromagnetic compatibility (EMC) mentioned in clause 9.4 and all test specified for specific application as mentioned in the Annexure(s) of IS/IEC 60947: Part 3: 2020
2.2	Low - Voltage switchgear and controlgear:	IS/IEC 60947:	Low - Voltage switchgear and controlgear: Part	10 <sup>th</sup> May 2026	All AC utilization categories	All test as per IS/IEC 60947: Part 3: 2020.

	switches,	Part 3:	3 switches,		Upto 630 A,	
	disconnectors,	2020	disconnectors,		Upto 440V	
	switch		switch		AC	
	disconnectors		disconnectors			
	and fuse -		and fuse -			
	Combination		Combination			
	units		units			
2.3	Low - Voltage	IS/IEC	Low - Voltage	10th May 2027	All AC	All test as per
	switchgear and	60947:	switchgear and		utilization	IS/IEC 60947 :
	controlgear:	Part 3:	controlgear: Part		categories	Part 3 : 2020.
	switches,	2020	3 switches,		Above 630	
	disconnectors,		disconnectors,		A, Upto 440V	
	switch		switch		AC	
	disconnectors		disconnectors			
	and fuse -		and fuse -			
	Combination		Combination			
	units		units			
2.4	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2028	All AC	All test as per
	switchgear and	60947:	switchgear and	12220	utilization	IS/IEC 60947 :
	controlgear:	Part 3:	controlgear: Part		categories	Part 3 : 2020.
	switches,	2020	3 switches,		All ratings,	14110.2020.
	disconnectors,		disconnectors,		above 440V	
	switch		switch	#	AC	
	disconnectors		disconnectors		ne ne	
	and fuse -		and fuse -			
	Combination		Combination			
	units		units			
2.5	Low - Voltage	IS/IEC	Low - Voltage	10th May 2028	All DC	A 11
	switchgear and	60947:	switchgear and	10 Wlay 2020	utilization	All test as per
	controlgear:	Part 3:	controlgear: Part			IS/IEC 60947:
	switches,	2020	3 switches,		categories,	Part 3 : 2020.
	disconnectors,		disconnectors,		All ratings.	
	switch		switch			
	disconnectors		disconnectors			
	and fuse -					
	Combination		- Constitution of the Cons			
			Combination			
21/1	units	ICATO	units	4012	_	
3.1(a)	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2025	Contactor -	All test as per
	switchgear and	60947 :	switchgear and		All AC	IS/IEC 60947:
	controlgear:	Part 4:	controlgear: Part		utilization	Part 4 : Sec 1 :
	electromechanic		4 contactors and		categories	2018. except

	al contactors and	Sec 1:	motor - Starters:		Linto 22 A	4la a 4 1 11 1 1
	motor - Starters	2018			Upto 32A	the test listed
	niotor Starters	2010	Sec 1 electromechanic			below in Sr.
			al contactors and			No. 3.1.(b) of
						this table.
			motor - Starters			
0.1(1)	7 77 1	10,770	(First Revision)			
3.1(b)	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2026*	Contactor -	Electromagneti
	switchgear and	60947:	switchgear and		All AC	c compatibility
	controlgear:	Part 4:	controlgear: Part		utilization	(EMC)
	electromechanic	Sec 1:	4 contactors and		categories	mentioned in
	al contactors and	2018	motor - Starters:		Upto 32A	clause 9.4 and
	motor – Starters		Sec 1			all test
			electromechanic			specified for
			al contactors and			specific
			motor - Starters			application as
			(First Revision)			mentioned in
						the
						Annexure(s) of
						IS/IEC 60947:
						Part 4 : Sec 1 :
						2018.
3.2	Low - Voltage	IS/IEC	Low - Voltage	10th May 2026	Contactor -	All test as per
	switchgear and	60947:	switchgear and		All AC	IS/IEC 60947 :
	controlgear:	Part 4:	controlgear: Part		utilization	Part 4 : Sec 1 :
	electromechanic	Sec 1:	4 contactors and		categories,	2018.
	al contactors and	2018	motor - Starters:		above 32A	
	motor - Starters		Sec 1			
			electromechanic			
			al contactors and			
			motor - Starters			
			(First Revision)			
3.3	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2027	Starter- All	All toot as
1955865	switchgear and	60947:	switchgear and	10 May 2021	AC	All test as per
	controlgear:	Part 4:	controlgear: Part		utilization	IS/IEC 60947 :
	electromechanic	Sec 1:	4 contactors and			Part 4 : Sec 1 :
	al contactors and	2018	motor - Starters:		categories	2018.
	motor - Starters				direct-on-line	
	motor - Starters				a.c. starter	
			electromechanic			
			al contactors and			
			motor - Starters			
			(First Revision)			

3.4 Low - Voltage IS/IEC Low - Voltage 10th May 2028 switchgear and 60947: switchgear and	Starter- All AC	All test as per
o and a second of the second o		IS/IEC 60947:
controlgear: Part 4: controlgear: Part	utilization	Part 4 : Sec 1 :
electromechanic Sec 1: 4 contactors and	categories.	2018.
al contactors and 2018 motor - Starters:	All other	2018.
motor – Starters Sec 1	Starters	
electromechanic	Starters	
al contactors and		
motor - Starters		
(First Revision)		
	AUDC	
0 , 1 mgc 10 may 2020	All DC	All test as per
Dest 4	utilization	IS/IEC 60947 :
orthologen, Tult	categories.	Part 4 : Sec 1 :
2010	All DC	2018.
motor - Starters.	ratings	
motor – Starters Sec 1		
electromechanic		
al contactors and		
motor - Starters		
(First Revision)		
	All types of	All test as per
	product	IS/IEC 60947:
	ratings	Part 4: Sec 2:
a.c. Sec 2: 4 contactors and		2020.
semiconductor 2020 motor - Starters:		
motor Sec 2 a.c		
controllers and semiconductor		
starters motor		
controllers and		
starters (First		
Revision)		
	All types of	All test as per
	product	IS/IEC 60947 :
	ratings	Part 4: Sec 3:
semiconductor Sec 3: 4 contactors and		2020.
motor 2020 motor - Starters:		
controllers and Sec 3 a.c.		
contactors for semiconductor		
non - Motor motor		
loads controllers and		
contactors for		
non - Motor		

			loads (Second			
6.1(a)	Low - Voltage switchgear and controlgear: electromechanic al control circuit devices	IS/IEC 60947: Part 5: Sec 1: 2016	Revision)  Low - Voltage switchgear and controlgear: Part 5 control circuit devices and switching elements: Sec 1 electromechanic al control circuit devices (First Revision)	10th May 2025	All AC utilization categories Upto 440V AC	All test as per IS/IEC 60947: Part 5: Sec 1: 2016. except the test listed below in Sr. No. 6.1(b) of this table.
6.1(b)	Low - Voltage switchgear and controlgear: electromechanic al control circuit devices	IS/IEC 60947: Part 5: Sec 1: 2016	Low - Voltage switchgear and controlgear: Part 5 control circuit devices and switching elements: Sec 1 electromechanic al control circuit devices (First Revision)	10 <sup>th</sup> May 2026*	All AC utilization categories Upto 440V AC	Electromagnetic compatibility (EMC) test mentioned in clause 8.3 and all test specified for specific application as mentioned in the Annexure(s) of IS/IEC 60947: Part 5: Sec 1: 2016.
6.2	Low - Voltage switchgear and controlgear: electromechanic al control circuit devices	IS/IEC 60947: Part 5: Sec 1: 2016	Low - Voltage switchgear and controlgear: Part 5 control circuit devices and switching elements: Sec 1 electromechanic al control circuit devices (First Revision)	10 <sup>th</sup> May 2026	All AC utilization categories Above 440V AC	All test as per IS/IEC 60947: Part 5 : Sec 1 : 2016.

6.3	Low - Voltage	IS/IEC	Low - Voltage	10th Mr. 2007	AUDC	ATT
0.3				10 <sup>th</sup> May 2027	All DC	All test as per
	switchgear and	60947:	switchgear and		utilization	IS/IEC 60947:
	controlgear:	Part 5:	controlgear: Part		categories	Part 5 : Sec 1 :
	electromechanic	Sec 1:	5 control circuit		All DC	2016
	al control circuit	2016	devices and		ratings	
	devices		switching			
			elements: Sec 1			
			electromechanic			
			al control circuit			
			devices (First			
			Revision)	.83		
7.	Low - Voltage	IS/IEC	Low - Voltage	10th May 2025	All types of	All test as per
	switchgear and	60947 :	switchgear and		product	IS/IEC 60947:
	controlgear	Part 5:	controlgear: Part		ratings	Part 5 : Sec 2 :
	proximity	Sec 2:	5 control circuit		9056	2019.
	switches	2019	devices and			
			switching			
			elements: Sec 2			
			proximity			
	A.		switches			
8.1	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2025	All devices	All test as per
	switchgear and	60947 :	switchgear and		with button	IS/IEC 60947 :
	controlgear:	Part 5 :	controlgear: Part		type actuator	Part 5 : Sec 5 :
	electrical	Sec 5:	5 control circuit		-yr	2016.
	emergency stop	2016	devices and			
	devices with		switching			
	mechanical		elements: Sec 5			
	latching function		electrical			
	8		emergency stop			
			devices with			
			mechanical			
			latching function			
8.2	Low - Voltage	IS/IEC	Low - Voltage	10 <sup>th</sup> May 2026	All devices	A 11 Ac-1
0.2	switchgear and	60947 :	switchgear and	10" Way 2020		All test as per
	controlgear:	Part 5:	controlgear: Part		with all types	IS/IEC 60947:
	electrical	Sec 5:	5 control circuit		of actuator	Part 5 : Sec 5 :
						2016.
	emergency stop	2016	devices and			
	devices with		switching			
	mechanical		elements: Sec 5			
	latching function		electrical			
			emergency stop			

devices with	
mechanical	
latching function	

Note.- A product grouping guideline for obtaining a license from certifying and enforcing authority, i.e., Bureau of Indian Standards in this regard will be issued separately with the approval of the Competent Authority, if required.

\* Subjected to the condition that Manufacturer shall submit declaration to Bureau of Indian Standards for submission of a report of test compliance by 10<sup>th</sup> May, 2026 or if any other date notified in this regard, whichever is later.".

[F. No. 8(1)/2018-HEI-Part(1)] Vijay Mittal, Jt. Secy.

Note.- The principal Order, i.e., the Electrical Equipment (Quality Control) Order, 2020 was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide notification number S.O. 4044(E), dated the 11<sup>th</sup> November, 2020. Subsequently, extension in timelines for the implementation was given through notification number S.O. 4492(E), dated the 18<sup>th</sup> October, 2021 and S.O. 5083(E), dated the 28<sup>th</sup> October, 2022.

The Electrical Equipment (Quality Control) Amendment Order, 2023 was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide notification number S.O. 2132(E), dated the 9th May, 2023.