REASONED DOCUMENT IN RESPONSE TO UPLOADED DRAFT ITEM SPECIFIC GUIDELINES AND SCHEDULE OF TECHNICAL REQUIREMENTS FOR VENDOR APPROVAL FOR MANUFACTURE AND SUPPLY OF ELASTIC RAIL CLIS, DOCUMENT NO. TDG 0044

Para No.	Existi	ing provision in	n STR of	ERC			fied provision			Comments /Suggestions by stakeholders	RDSO's Remarks
140.	of Tec	chnical Require	ments for	guidelines & Sched Vendor approval fo		(1120)			,		
1.0		manufacture and supply of Elastic Rail Clips Amendment History:				Amer	ndment History	7 :		No Comments /Suggestions from approved/ developmental	The document has been modified as per relevant
	S. No.	Amendment Date	Versio n	Reasons for Amendment		S. No.	Amendment Date	Versio n	Reasons for Amendment	vendors has been received	ISO document
	1.1	31.01.2019	QC-G- 8.1-3, Ver. '1'	First issue under new documentation system		1.1	31.01.2019	QC-G- 8.1-3, Ver. '1'	First issue under new documentation system		
	2.	06.06.2022	TDG 0044 Ver. '0'	Amendment in Specification and quality improvement		2.	06.06.2022	TDG 0044 Ver. '0'	Amendment in Specification and quality improvement		
						3.	00.11.2024	TDG 0044 Ver. '1'	Amendment in Specification and quality improvement		
3.0	This assess appropriate their at the propriet that in prevail	sment, periodic val, up-gradation approved list. It ocedure/provision the 'Item- spo	Quality on of ver n case of on given ecific guid nt authori	for initial capab audit for extension and maintain any variation between work instruction delines', the later sty wherever referre ED/INFRA-I	n of ning ween and shall	This assess extension and not any vigiven specific computing distribution of the manual manua	sment, period sion of approvenaintaining the rariation between in work instruction fic guidelines', etent authority ocument shall responsibility of RDSO for	cable for dic Qua al, up-gra air approven the praction and the later wherever mean PEI of the vequality	dation of vendors ed list. In case of ocedure/provision that in the 'Itemshall prevail. The er referred to in D/INFRA-I.	Fabricators, Faridabad	Comments of the firms have been examined. Firm shall inform the RDSO for conducting the quality audit as per provisions of ISO document.

Dara	Evisting provision in STD of EDC	Modified provision in CTD of EDC	Comments /Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	RDSO's Remarks
No.		(Modification shown in red)		
			Quality Audit before the due date	
			but at the same time RDSO also	
			must send us the reminder in at	
			least two months in advance for	
			quality Audit of our Unit	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			x) M/s Adinath Industries INC	
			xi) M/s R. Rashmi Industries	
			xii) M/s Swatee Steels	
			xiii) M/s Digvijay Steels	
			xiv) M/s Ved Kiran Steels	
			xv) M/s Kamakshi Track	
			Fasteners	
			xvi) M/s Vaishno Mata Track	
			xvii) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xviii) M/s Qualite Steels	
			xix) M/s M K Corporation,	
			Raigarh	
			Although we take responsibility	
			to approach the RDSO for	
			Quality Audit before the due	
			date.	
			RDSO also must send us the due	
			date reminder 30 days in advance	
			for quality Audit of our Unit	
			through registered email.	
B.	SCHEDULE OF TECHNICAL REQUIREMENTS ANTI-THEFT ERC (WITH CIRCLIP)	FOR APPROVAL OF FIRMS TO MANUFAC	CTURE ELASTIC RAIL CLIPS N	// Ak-III, ERC-J, MK-V &
2.1	MANUFACTURING FACILITIES:			
2.1.1	Space: Sufficient covered area with proper	Space: Sufficient covered area with proper	i) M/s Jekay International	The suggestion of the
2.1.1	ventilationshould be available for manufacturing and	ventilationand facility to run EOT (Electric	Track Pvt. Ltd.	firm has been
	. This is the second of a variable for management ing and	. Initial shall recently to rain Bot (Electric	II HOM I TO LITUE	mas seem

Dara	Existing provision in STD of EDC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	_	Comments /Suggestions by	RDSO'S Remarks
No.		(Modification shown in red)	stakeholders	
	testing facilities. Space for storage of raw material,	Overhead Traveling crane)should be available	A minimum of 2500 m ² should	examined.
	cut bars, heating furnace, power press for forming	for manufacturing and testing facilities. Space	be available for raw material,	
	clips, quenching tank, tempering furnace and for	for storage of raw material, cut bars, heating	production, storage and dispatch	The minimum area
	storage of finished products should be earmarked	furnace, power press for forming clips,	of clips.	cannot be fixed in the
	clearly.	quenching tank, tempering furnace and for	_	STR. The firm will
	•	storage of finished products should be	ii)M/s Panagarh Engineering	have to indicate the
		earmarked clearly. The shed floor area should	works (Patna) Pvt. Ltd.	sufficient area for
		be completely concreted with VDF.	iii) M/s Surya Coach	manufacturing, testing,
			Builders Pvt. Ltd.	storage of raw material
			iv) M/s Surya Coach Builders	and storage of finished
			Pvt. Ltd. Unit II	product.
			v) M/s Siddhartha Metal	
			Fabricators, Faridabad	Requirement of EOT
			vi) M/s Modern Manufactures,	and VDF floor was
			Panchkula	discussed in the
			vii) M/s Vaishno Mata	meeting held on
			Track, Faridabad	24.01.2025 with ERC
			viii) M/s Fateh Chand Jain,	vendors and it was
			Faridabad	stated that the EOT is
			ix) M/s MMD Rail Tracks,	not required for
			Panchkula	handling the raw
			x) M/s Bridge Tracks &	material.
			Towers Pvt. Ltd.	
				The VDF floor shall be
			EOT (Electric Over Head Crane)	made optional and
			is not required in our system for	replaced with other
			handling of raw material or	option of concrete
			Finish goods and its use in our	flooring.
			product is beyond our	
			understanding.	Accordingly, Para has
				been modified.
			To install the EOT crane the	
			Infrastructure of the Shed of Unit	
			needs to be replaced.	
			Floor of the Unit are concreted	
			with trimix	
			xi) M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	
			xii) M/s Nandi Enterprises,	
			Kolkata	
			xiii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.	

	E : / CED CED C	M I'C I ' CED CEDC	to Letter no. C1/EF/Dev		
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks	
No.		(Modification shown in red)	stakeholders		
			Minimum Covered Area- 15000		
			sq. ft. along with overhead crane		
			for stacking of Raw Material heat		
			wise shed area should be RCC		
			concrete flooring.		
			xiv) M/s Pathik Engineering		
			Works ,Chattisgarh		
			Existing sheds to manufacture		
			ERCs are not having the facility		
			to install EOT cranes also not		
			designed for provision of such		
			facility. Presently this is not		
			possible to install EOT cranes in		
			our existing sheds at this stage.		
			However, option to have the		
			facility of mobile crane and fork		
			lift should be there and it will		
			serve the purpose. Use of regular		
			quenching oil is there so shed		
			floor with VDF may create some		
			problem and concreted shed area		
			can be provided.		
			xv) M/s Prakash Metallic Pvt.		
			Ltd., Raipur		
			EOT (electric over Head Crane)		
			is not required in our system for		
			handling of raw material or		
			Finish goods and its use in our		
			product is beyond our		
			understanding. Further,		
			Infrastructure of the Shed of the		
			Unitneeds to be changed toinstall		
			EOT Crane.		
			Floor of the Unit areconcreted		
			with trimixwhich is sufficient		
			loadbearing for our product.The		
			use of VDF is againunjustified.		
			A mosting hold 24.01.2025		
			A meeting held on 24.01.2025		
			with ERC vendors for		
			discussion on proposed change		
			in STR, comments of firms		
			received after meeting are as		

Dara	Existing provision in STR of ERC Modified provision in STR of ERC		Comments /Suggestions by	RDSO's Remarks
Para No.	Existing provision in STR of ERC	(Modification shown in red)	Comments /Suggestions by stakeholders	KDSO's Remarks
			follows:	
			xvi) M/s Adinath	
			Industries INC xvii) M/s R. Rashmi	
			Industries	
			xviii) M/s Swatee Steels	
			xix) M/s Digvijay Steels	
			xx) M/s Ved Kiran Steels	
			xxi) M/s Kamakshi Track	
			Fasteners	
			xxii) M/s Vaishno Mata Track	
			xxiii) M/s Maa Kali Projects Pvt. Ltd.	
			xxiv) M/s Qualite Steels	
			xxv) M/s M K Corporation,	
			Raigarh	
			EOT (Electric Over Head Crane)	
			is not required in our system for	
			handling of raw material or	
			Finish goods and its use in our product is beyond our	
			understanding.	
			To install the EOT crane the	
			Infrastructure of the Shed of Unit	
			needs to be replaced. Thus as	
			discussed in the meeting EOT is not Mandatory and will remain	
			optional.	
			Trimix Concrete Floor is	
			equivalent to concreted with	
0.45	D M. 1 771 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1	D M (1 m) 11 11 11 1	VDF floor.	TEI (0.1100)/
2.1.2	Raw Material: The as rolled bars to be used for manufacture of ERC shall be stored heat wise	Raw Material: The as rolled bars to be used for manufacture of ERC shall be stored heat	i) M/s Kalimata Vyapar Pvt.	The aspect of different/ several heats in a small
	separately so that they do not get mixed up	wise separately so that they do not get mixed	Ltd., Kolkata	quantity, should be
		up	ii) M/s Nandi Enterprised,	handled by the ERC
			Kolkata	manufacturer and raw
			iii) M/s Kalimata Ispat	material manufacturer.
			Industries Pvt. Ltd. ,	

D-	Enisting maniping in CTD (CED C	Modified annuision in CED CEDC	Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Kolkata	ERC manufacturer
				should contact raw
			Raw Material- How much area	material supplier with
			should be earmarked for heat	pre-agreed conditions
			wise stacking of Raw Material as	of supply.
			RINL, Bhusan, JSPL & other raw	or suppriy.
			material manufacturers are	This issue wasdiscussed
			sending 10 heats in truck of 2MIT	in the vendor's meeting.
			to 3 IWT of individual heat size.	in the vendor's meeting.
2.4.2	Doman Dunan	Donner Durage Donner with sufficient		T4 : d44 :
2.1.3	Power Press: Power press with sufficient capacityto	Power Press: Power press with sufficient		It is understood that in
	cut the as rolled bars should be available. Two or	capacity/ Power press feeded with mechanized	Track Pvt. Ltd.	the existing
	three supports depending upon length of the rolled	roller conveyorto cut the as rolled bars should	771 0 11	infrastructure Roller
	bars should be available near the cutting press, to	be available. Two or three supports depending		system is available with
	hold bars such that their end squareness is maintained	upon length of the rolled bars should be		the firms in which bar is
	within 1 mm	available near the cutting press, to hold bars	sufficient capacity	pushed by the workers.
		such that their end squareness is maintained	ii)M/s Panagarh Engineering	
		within 1 mm	works (Patna) Pvt. Ltd.	However recently,
			iii) M/s Surya Coach	manual errors, end
			Builders Pvt. Ltd.	squareness and variation
			iv) M/s Surya Coach Builders	in the length of cut bars
			Pvt. Ltd. Unit II	have been observed
				during production which
			Fabricators, Faridabad	lead to dimensional
			7	inaccuracies in the clip.
			Panchkula	macearacies in the emp.
			vii) M/s Vaishno Mata	
			Track, Faridabad	This para was discussed
			7	
			viii) M/s Fateh Chand Jain,	in meeting held on
			Faridabad	24.01.2025 with ERC
			ix) M/s MMD Rail Tracks,	vendorsand it was stated
			Panchkula	that the Power press fed
			x) M/s Bridge Tracks &	
			Tower Pvt. Ltd.	conveyor to cut the as
				rolled bars shall be made
			Roller system is already available	optional.
			on which bar is pushed by the	
			workers. which maintain the	As the mechanization
			length,and end squareness of each	of cutting the bars shall
			bar	not directly enhance the
				quality of end product,
			xi) M/s Kalimata Vyapar Pvt.	the comment of the firm
			Ltd., Kolkata	has been accepted and
			xii) M/s Nandi Enterprices,	para has been modified.
<u> </u>			Anj 141/5 I vanui Enterprices,	Para has seen mounted.

Dama	Existing massision in CTD of EDC	Modified provision in CTD of EDC	Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Kolkata	
			xiii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Power Press- Automatic Bar	
			Machine with sufficient capacity	
			Power Press should be available	
			with conveyorized chain system	
			to ensure no manual interference	
			is involved which can ensure	
			exact sharing length of Round to	
			be used for manufacturing of	
			ERC MK-V. End Squareness-	
			Sufficient Bench Grinder should	
			be available near to Bar Sharing	
			Power Press to sharp edges/bars	
			from cut Bars.	
			xiv) M/s Pathik	
			Engineering Works,	
			Chattisgarh	
			Power Press machine feeded with	
			mechanized roller conveyor	
			system to cut the rolled bars will	
			not be beneficial and there is no	
			any technical improvements also	
			in the product. Manpower will	
			also be required in mechanized	
			conveyor system for loading of	
			material. It should be developed	
			by the manufacturers keeping in	
			view all the technical aspects and	
			accuracy as such this type of	
			machine is notavailable in	
			market. Manual feeding is better	
			and there is no any problem in	
			manual feeding therefore option	
			for manual feeding should be	
			available in the specification.	
			xv)M/s Prakash Metallic Pvt.	
			Ltd. Raipur	
			Roller system is already available	
			on which bar is pushed by the	
			workers. which maintain the	
			workers, which maintain the	

Dava	a Existing provision in STR of ERC Modified provision in STR of ERC		Comments (Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC		Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			length, and end squareness of	
			each bar.	
			Mechanized feederreduces the	
			endsquareness,	
			increasesrejections due to	
			shortlength cut by the	
			feeder,thereby	
			reducingproduction capacity.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xvi) M/s Adinath Industries	
			INC	
			xvii) M/s R. Rashmi	
			Industries M/s Synaton Stanla	
			xviii) M/s Swatee Steels	
			xix) M/s Digvijay Steels	
			xx) M/s Ved Kiran Steels	
			xxi) M/s Kamakshi Track	
			Fasteners	
			xxii) M/s Vaishno Mata Track	
			xxiii) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxiv) M/s Qualite Steels	
			xxv) M/s M K Corporation,	
			Raigarh	
			Roller system is already available	
			on which bar is pushed by the	
1			workers. which maintain the	
1			length, and end squareness of	
1			each bar.	
1			Mechanized feeder needs	
			continue power press cutting	
1			system which can lead to	
1			defecate the end squareness,	
1			accident & more rejections. It	
			should remain optional.	

D	E-isting amorision in CTD of EDC	Madified muscisian in CTD of EDC	Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Cutting Die and Blades are to be	
			regularly checked and repaired in	
			order to maintain the end	
			squareness of the bar.	
2.1.4	Hydro-Copying turning machine (Only for ERC	Hydro-Copying turning machine (Only for	i) M/s Panagarh Engineering	To eliminate the human
2.1.4	Mk-V): One Hydro-copying turning machine with	ERC Mk-V): One Hydro-copying turning	works (Patna) Pvt. Ltd.	error in turning of the
	sufficient capacityto make the profile of central leg of	machine with sufficient capacity / Hydro-	ii) M/s Surya Coach	
			,	and diameter, Automatic
	ERC Mk-V as per the drawing should be available,	copying turning machine with Automatic bar	Builders Pvt. Ltd.	-
	preferably near the cutting power press.	feeding arrangementto make the profile of		bar feeding
		central leg of ERC Mk-V as per the drawing	Pvt. Ltd. Unit II	arrangementwas added
		should be available, preferably near the cutting	· ·	in the STR.
		power press	Fabricators, Faridabad	
			v) M/s Modern Manufactures,	
			Panchkula	This para was discussed
			vi) M/s Vaishno Mata Track,	in meeting held on
			Faridabad	24.01.2025 with ERC
			vii) M/s Fateh Chand Jain,	vendors and it was
			Faridabad	agreed that Hydro-
			viii) M/s MMD Rail Tracks,	
			Panchkula	with Automatic bar
			ix) M/s Bridge Tracks &	
				arrangementshall be
				made optional
			sufficient capacity are available.	made optional
			sufficient capacity are available.	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Accordingly, Para has
			x) M/s Kalimata Vyapar Pvt.	been modified
			Ltd., Kolkata	
			xi) M/s Nandi Enterprices,	
			Kolkata	
			xii)M/s Kalimata Ispat	
			Industries Pvt. Ltd. ,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			<u> </u>	
			xiii) M/s Pathik Engineering	
			Works, Chattisgarh	
			Manual feeding in Hydro-	
			copying turning machine is more	
			appropriate. There is no any	
			technical improvement by	
			providing proposed Hydro-	
			copying turning machine with	

	ro Evisting provision in STD of EDC Modified provision in STD of E		Comments /Suggestions by DDS		
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks	
No.		(Modification shown in red)	stakeholders		
			automatic bar feeding		
			arrangement and it does not		
			improve any results. This		
			machine is also very costly which		
			will ultimately increase the		
			manufacturing cost of ERCs and		
			any positive result will be		
			obtained.		
			xiv) M/s Prakash Mettalic Pvt.		
			Ltd. ,Raipur		
			Existing Hydro-		
			Copyingmachines cannot befitted		
			with sucharrangements nor		
			willthis arrangementimprove		
			quality of thematerial.		
			A meeting held on 24.01.2025		
			with ERC vendors for		
			discussion on proposed change		
			in STR, comments of firms		
			received after meeting are as		
			follows:		
			xxvi) M/s Adinath		
			Industries INC		
			xxvii) M/s R. Rashmi		
			Industries		
			xxviii) M/s Swatee Steels		
			xxix) M/s Digvijay Steels		
			xxx) M/s Ved Kiran Steels		
			xxxi) M/s Kamakshi Track		
			Fasteners		
			xxxii) M/s Vaishno Mata		
			Track		
			xxxiii) M/s Maa Kali Projects		
			Pvt. Ltd.		
			xxxiv)M/s Qualite Steels		
			xxxv) M/s M K Corporation,		
			Raigarh		
			Every unit has numbers of		
			Hydro-copying machine already		

Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
	Existing provision in STR of ERC	(Modification shown in red)	stakeholders	RD50 s Remarks
No.		(Wiodification shown in red)		
			installed in which automatic bar	
			feeder arrangements cannot be	
			fitted & these machines cannot	
			be made of scrap. Huge	
			investment is already made by	
			vendors.	
			The automatic feeding	
			arrangements do not solve any	
			additional quality improvement	
			which is discussed in the meeting	
			with the Machine Manufacturer	
			as well.	
245	Donah Cuindon Donah adir dan abada ba an '1 11	Donah Cuindom Donahindam -111 1		No shanges in this
2.1.5	Bench Grinder: Bench grinder should be available	Bench Grinder: Bench grinder should be	i) M/s Kalimata Vyapar Pvt.	No changes in this para
	near the cutting press to ground any sharp edges/	available near the cutting press to ground any	Ltd., Kolkata	were proposed.
	burrs from the cut bars	sharp edges/ burrs from the cut bars	ii) M/s Nandi Enterprices,	
			Kolkata	
			iii)M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR.	
			_	
2.1.6	Gauge for checking length of cut bars: Go/No Go	Gauge for checking length of cut bars:	i) M/s Kalimata Vyapar Pvt.	No changes in this para
2.2.0	gauge should be available to check the correctness of	Go/No Go gauge should be available to check	Ltd., Kolkata	were proposed.
	nominal length of cut bars within $+ 1.5$ mm and $- 0$	the correctness of nominal length of cut bars	ii) M/s Nandi Enterprices,	··· coo proposition
	mm	within + 1.5 mm and – 0 mm	Kolkata	
		Within 1.3 min and 6 min	iii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
2 : -	Destar D' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dealer Coff District	Specific Guideline and STR.	Dt. EDG 1 :
2.1.7	Racks: Pigeonhole racks to store the cut rods heat	Racks: Sufficient Pigeonhole racks to store the	i) M/s Jekay International	Presently, ERC plants
	wise should be available near the heating furnace.	cut rods of at list one day production heat wise	Track Pvt. Ltd.	are not fully, automatic.
		should be available near the heating furnace.	Remove this point - if the	Hence Pigeonhole racks
		Separate racks to store raw material heat wise	cutting / feeding and final	to store the cut bars is
		should be available.	forging process is automatic	required.
			ii) M/s Panagarh Engineering	
			works (Patna) Pvt. Ltd.	
			iii) M/s Śurya Coach	
			Builders Pvt. Ltd.	
			iv) M/s Surya Coach Builders	
			Pvt. Ltd. Unit II	
			- 100 Dour Chit II	

_	Eviating provision in CTD of EDC		to Letter no. CT/EF/Dev	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			v) M/s Siddhartha Metal	
			Fabricators, Faridabad	
			vi) M/s Modern Manufactures,	
			Panchkula	
			vii) M/s Vaishno Mata	
			Track, Faridabad	
			viii) M/s Fateh Chand Jain,	
			Faridabad	
			ix) M/s MMD Rail Tracks,	
			Panchkula Rain Tracks,	
			x) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
			Sufficient Racks to store the cut	After cutting the bars,
			Rods heat wise are available.	there is a possibility to
			xi) M/s Kalimata Vyapar Pvt.	mix with the other bars
				whose heat no. is
			Ltd., Kolkata	
			xii) M/s Nandi Enterprices	
			, Kolkata	leading to failures in the
			xiii) M/s Kalimata Ispat	check analysis of
			Industries Pvt. Ltd.,	chemical composition.
			Kolkata	T 11 1 1 1 1
			Rack- Rack Size should be such	To eliminate the above
			that number 35000 nos. of ERC.	possibility, Pigeonhole
			of same heat should be stacked.	racks to store the cut
			heat wise for traceability of Heat	rods of at least one day
			Wise Raw Material. This is only	production is added in
			possible when Raw Material	the STR.
			manufactures supply Raw	
			Material heat wise not as per	
			their wish.	
			xiv) M/s Pathik	
			Engineering Works,	
			Chattisgarh	
			Agreed. The world "list" to be	
			replaced by "least"	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xv) M/s Adinath	
	I.		,	<u> </u>

	E '-/' CTD CEDC	M. P.C. I CED CEDC	Comments (Second Second	
Para No.	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	RDSO's Remarks
	Heating furnace: "Induction heating pusher type furnace fitted with accept / reject system using double	•	Industries INC xvi) M/s R. Rashmi Industries xvii) M/s Swatee Steels xviii) M/s Digvijay Steels xix) M/s Ved Kiran Steels xx) M/s Kamakshi Track Fasteners xxi) M/s Vaishno Mata Track xxii) M/s Maa Kali Projects Pvt. Ltd. xxiii) M/s Qualite Steels xxiv) M/s M K Corporation, Raigarh Pigeonhole Racks will be made available. i) M/s Panagarh Engineering works (Patna) Pvt. Ltd.	In Heating Furnace oil fired or Gas Fired
	colored Radiation Pyrometer should be available	type heating furnaceshould be available. An automatic temperature control device and continuous temperature recorder should alsobe fitted with OR "Induction heating pusher typefurnace fitted with accept / reject system using double colored Radiation Pyrometer should be available".	ii) M/s Surya Coach Builders Pvt. Ltd. iii) M/s Surya Coach Builders Pvt. Ltd. Unit II iv) M/s Siddhartha Metal Fabricators, Faridabad	walking beam type, following issues have been found which affect the quality of the ERCs in regular production: i) The soaking time in the furnace is more than 14 minutes. This is leading to over burning of bars, section reduction due to the over scaling ii) Bars in the furnace stick together with other bars iii) Difficult to maintain uniform temperature in the furnace

Dara	Existing provision in STD of EDC	Modified provision in CTD of EDC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO'S Remarks
No.		(Modification shown in red)	stakeholders	
				iv) Environmental
			Implementing only Induction	issue at some
			heating Furnace will cost heavily	places is also with
			to vendors as we need additional	the furnace.
			Substation for LT/HT	
			connection, sufficient capacity of	To eliminate the above
			transformer, cooling System,	issuesand improve the
			Under Ground and Over head	quality of ERC
			water tank with inbuilt with	Induction heating
			continuous system, power	furnace is required.
			backup and finally Induction	Hence the comments
			Heating with Pusher and heating Coil.	of the firms are not accepted.
			x) M/s Kalimata Vyapar Pvt.	-
			Ltd., Kolkata	
			xi) M/s Nandi Enterprices ,	
			Kolkata	
			xii) M/s Kalimata Ispat	
			Industries Pvt. Ltd. ,	
			Kolkata	
			Heating Furnace- Minimum 250	
			KW Induction Heating Pusher	
			type furnace fitted with	
			accept/reject system using double	
			colored Radiation Pyrometer	
			should be available.	
			xiii) M/s Pathik Engineering	
			Works, Chattisgarh	
			Agreed with the proposed	
			changes. A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xiv) M/s Adinath Industries	
			INC	
			xv)M/s R. Rashmi Industries	
			xvi) M/s Swatee Steels	
			xvii) M/s Digvijay Steels	
			xviii) M/s Ved Kiran Steels	
			Aviii) 11/15 ved Kii ali Steels	

_	D	to Letter no. CT/EF/Dev		
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			xix) M/s Kamakshi Track	
			Fasteners	
			xx) M/s Vaishno Mata Track	
			xxi) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxii) M/s Qualite Steels	
			xxiii) M/s M K Corporation,	
			Raigarh	
			Heating Furnaces Oil Fired or	
			Gas Fired or Induction heating	
			Pusher type all are being used as	
			per vendors choice and are good	
			enough to heat the bars at	
			required temperature depending	
			upon the mode of fuel/energy	
			available in respective industrial	
			zones.	
			Implementing only Induction	
			Heating Furnace will cost heavily	
			to vendors as we need additional	
			Substation for LT/HT	
			connection, sufficient capacity of	
			Transformer, Cooling System,	
			Under Gound and Over head	
			water tank with inbuilt	
			continuous water system, Pusher	
			and heating Coil. There are several industrial areas	
			where sufficient electricity	
			connection load is not available.	
			Electricity Tariff varies from	
			state to state due to which using	
			electric induction is not viable in	
			many such states which is not	
			good for fair competition	
			Many units do not have	
			sufficient area to make such	
			additional infra changes	
			The cost of implementing the	
			entire infra for working with	
			Induction heating furnace is 2cr	

D	Eviating provision in CTD of EDC	Modified provision in CTD of EDC	Commonts / Cugasstians L.	DDCO's Damanla
	Existing provision in STK of EKC			KDSO's Kemarks
No.		(Modification shown in red)		
2.1.9	Power Press for forming clip: Power press of sufficient capacity fitted with the required dies should be available for formation of clips installed near the heating furnace such that the time taken between taking out the heated bars to forming the clips and then dipping them in oil quenching bath can be completed within 20 seconds. Necessary die checking templates should be available at the works for checking the wear and tear of the dies.	Power Press for forming clip: Power press of sufficient capacity fitted with the required dies made of YXR-33 / carbide material for the sequential bending process for the formation of the clip with or without robotic feeder should be available for formation of clips installed near the Induction heating furnace such that the time taken between taking out the heated bars to forming the clips and then dipping them in oil quenching bath can be completed within 20 seconds. Necessary die checking templates should also be available at the works for checking the wear and tear of the dies. Dies shall be checked before starting the shift andafter production of every 4000 nos. of clips. The checking shall be done using especially prepared templates. At the start of the shift, the dies shall be checked using the templates for the first bend, second bend and the assembly die. If, the ERCs produced are as per the prescribed dimensions, only first bend and second bend need to be checked after production of 4000 ERCs. Record of checking shall be maintained in a separate register with details of maintenance of the dies.	itself which is unviable to MSE units. Induction heating furnace will not solve the purpose to achieve the toe load. Hence, as discussed in the meeting, Induction heating Furnace should continue to be optional along with Oil fired and gas fired for existing units. i) M/s Jekay International Track Pvt. Ltd. Formation should take place using a sequential bending process so that there is a separate press for each die required for the formation of the clip. (This ensures better control for each forging operation). The feeding of material from one press to the other should be robotic in order to ensure even bends and stable geometry. ii) M/s Panagarh Engineering works (Patna) Pvt. Ltd. iii) M/s Surya Coach Builders Pvt. Ltd. iii) M/s Surya Coach Builders Pvt. Ltd. Unit II v) M/s Siddhartha Metal Fabricators, Faridabad vi) M/s Modern Manufactures, Panchkula vii) M/s Vaishno Mata Track, Faridabad viii) M/s Fateh Chand Jain, Faridabad	The sequential bending process for the formation of the clip with robotic feeder can be used by the firm at present. This may be opted as an optional and para may be revised accordingly.

Dora	Existing provision in STD of EDC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	•	Comments /Suggestions by stakeholders	RDSO's Remarks
No.		(Modification shown in red)		
			x) M/s Bridge Tracks & Tower	
			Pvt. Ltd	Recently, samples were
			Dies are regularly checked &	picked from the field
			maintained before and after daily	for quality testing in
			production.	RDSO and most of the
			Bar of 4000 nos. should not be	samples failed in
			made compulsory as dies may	dimension.
			need correction even earlier and	
			should be kept as dies may need	Dimensions of ERC are
			correction even earlier and	controlled by the dies
			should be kept a daily check	only. To control the
			twice in a day's production.	dimension during mass
			xi)M/s Kalimata Vyapar Pvt.	production the die
			Ltd., Kolkata	checking through
			xii) M/s Nandi Enterprices	standard templets has
			, Kolkata	been added.
			xiii) M/s Kalimata Ispat	oven added.
			, , , , , , , , , , , , , , , , , , ,	
			Industries Pvt. Ltd. ,	The sequential bending
			Kolkata	1
			Power Press for forming Clip &	process for the
			Scale Blower- Robotic	formation of the clip
			Manipulators for part pick up	with robotic feeder can
			from conveyor, Manipulator for	be used by the firm at
			Part Pick from 3 rd d Press,	present. This may be
			Chip/Scale Blowing System for	opted as an optional and
			presses. Robot with interface	para has been revised
			Panel with electrical accessories	accordingly.
			wiring should be available.	
			Necessary arrangements should	
			be available for Robotic	
			Manufacturing of 1st, 2nd &	
			3 rd Bend which can give us better	
			accuracy in dimension. Power	
			Press for forming Clip & Scale	
			Blower- Robotic Manipulators	
			for part pick up from conveyor,	
			Manipulator for Part Pick from	
			3 rd d Press, Chip/Scale Blowing	
			System for presses. Robot with	
			interface Panel with electrical	
			accessories wiring should be	
			available. Necessary	
			arrangements should be available	
			arrangements should be available	

	to Letter no. CT/EF/Dev dated.02.2025			
Para No.	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	RDSO's Remarks
110.		,	for Robotic Manufacturing of 1st,	
			2nd & 3 rd Bend which can give us	
			better accuracy in dimension.	
			xxiv) M/s Pathik	
			Engineering Works,	
			Chattisgarh	
			Agreed with the proposed	
			changes.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xxv) M/s Adinath Industries INC	
			xxvi) M/s R. Rashmi	
			Industries	
			xxvii) M/s Swatee Steels	
			xxviii) M/s Digvijay Steels	
			xxix) M/s Ved Kiran Steels	
			xxx) M/s Kamakshi Track	
			Fasteners	
			xxxi) M/s Vaishno Mata	
			Track	
			xxxii) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxxiii) M/s Qualite Steels	
			xxxiv) M/s M K Corporation,	
			Raigarh	
			ERC manufacturing Die is the set	
			of various portable parts. Dies	
			are maintained according to the	
			non-conformity found during	
			production process.	
			Dies are regularly Checked and	
			maintained before, after and	

Doro	Existing provision in CTD of EDC	Modified provision in CTD of EDC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			during daily production.	
			Bars of 4000 nos. should not be	
			made compulsory as dies may	
			need correction even earlier and	
			should be kept as daily check	
			twice in a day's production and	
			record shall be maintained.	
2.1.1	Scale blower: There should be an arrangement for	Scale blower: There should be an arrangement	i) M/s Panagarh Engineering	
0	blowing off scales from the dies fitted into the clip	for blowing off scales from the dies fitted into	works (Patna) Pvt. Ltd.	
U	forming press. For this purpose a compressor with	the clip forming press. For this purpose a	ii) M/s Surya Coach Builders	
	capacity should be available	compressor with at least 3 Kg/cm ² capacity	Pvt. Ltd.	
	capacity should be available	should be available	iii) M/s Surya Coach Builders	
		Should be available	Pvt. Ltd. Unit II.	
			iv) M/s Siddhartha Metal	
			Fabricators, Faridabad.	
			v) M/s Modern Manufactures,	
			Panchkula	
			vi) M/s Vaishno Mata Track,	
			Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			x) M/s Adinath Industries	
			INC	
			xi) M/s R. Rashmi Industries	
			xii) M/s Swatee Steels	
			· ·	
			xiii) M/s Digvijay Steels	Ordinary hand blower
			xiv) M/s Ved Kiran Steels	•
			xv) M/s Kamakshi Track	is not effective during
			· ·	the mass production.
			Fasteners	Therefore, the
			xvi) M/s Vaishno Mata Track	compressed air
			L	

Davis	Existing provision in CTD of EDC	Modified provision in STR of ERC	Comments /Suggestions by	
Para	Existing provision in STR of ERC	<u> </u>	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			xvii) M/s Maa Kali Projects	blower has been
			Pvt. Ltd.	added to clean the
			xviii) M/s Qualite Steels	scale from the dies
			xix) M/s M K Corporation,	effectively.
			Raigarh	,
			Compressor for scale blowing is	Hence comments of
			available of sufficient capacity.	the firms are not
			xx)M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	accepted.
			xxi) M/s Nandi	
			Enterprices, Kolkata	
			xxii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			xiii)M/s Pathik Engineering	
			Works, Chattisgarh	
			Use of hand blower equipment is	
			also technically suitable and	
			more efficient for blowing of	
			scales. It covers all spaces and	
			corners of dies.	
2.1.1	Oil quenching tank: Oil-quenching tank of adequate	Oil quenching tank: Oil-quenching tank of	i) M/s Jekay International	
1	length, width and depth should be available fitted	adequate length, width and depth should be	Track Pvt. Ltd.	
-	with a conveyor belt passing through the oil. Facility	available fitted with a conveyor belt passing	Truck I vi. Etu.	
	for cooling the oil by way of heat exchange with	through the oil. Facility for cooling the oil by	Oil quenching tank: As an	The suggestion of water
	cooling tower along with continuous temperature	way of heat exchange with separatecooling	alternative to oil quenching,	soluble quenching
	recorder should be available such that the temperature	tower along with continuous temperature	water soluble quenching liquid	liquid is not accepted as
	of oil does not exceed 70° centigrade. Oil tank should	recorder should be available such that the	may also be allowed.	the heat treatment of
	also be fitted with mechanical / motorized stirrerto	temperature of oil does not exceed 70°	Water soluble quenching tank of	ERC is defined as
	maintain uniform temperature of oil throughout the	centigrade. Oil tank should also be fitted with	adequate length, width and depth	heating, oil quenching
	tank. The speed of the conveyer belt shall facilitate	mechanical / motorized stirrer and filter with	should be available with a	followed by and
	the clip to be in oil for at least 12 minutes.	sufficient capacity to maintain uniform	conveyor belt passing through	tempering.
		temperature of oil throughout the tank. The	the liquid. Facility for cooling the	
		speed of the conveyer belt shall facilitate the	liquid by way of heat exchange	
		clip to be in oil for at least 12 minutes.	with cooling tower along with	
			continuous temperature recorder	
		The oil quenching followed by tempering	should be available such that	
		process must take place in line. No	temperature of the liquid does not	
		discontinuity should be allowed between these	exceed 42 degrees Celsius. Tank	
		processes. The transfer of Oil quenched clip to	should also be fitted with	
		1 1	Silvara also so intea with	

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Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
		tempering process must be automatic without	mechanical / motorized stirrer	
		any manual intervention.	and filter with sufficient capacity	
			to maintain uniform temperature	
			of oil throughout the tank.	
			Additional Points:	
			Coating: The clips shall Zinc	Coating on the clip is a
			flakes coated thickness of which	separate subject and
			shall ensures that they withstand	shall be delt separately.
			960 hours of Neutral Salt Spray	1 3
			Test.	
			ii) M/s Panagarh Engineering	
			works (Patna) Pvt. Ltd.	
			iii) M/s Surya Coach Builders	
			Pvt. Ltd.	
			iv) M/s Surya Coach Builders	
			Pvt. Ltd. Unit II	
			v) M/s Siddhartha Metal	
			Fabricators, Faridabad	
			vi) M/s Modern Manufactures,	
			Panchkula	
			vii) M/s Vaishno Mata	
			Track, Faridabad	
			viii) M/s Fateh Chand Jain,	
			Faridabad	
			ix) M/s MMD Rail Tracks,	
			Panchkula	
			x) M/s Bridge Tracks & Tower	
			, ,	
			Pvt. Ltd	
			The process to transfer oil	
			quenched clips to tempering are	The continuous process
			placed manually by workers so as	
			the heat and air should circulate	of quenching and tempering through
			and pass through clips without	conveyor belt will
			any hindrance.	eliminate the possibility
			The continuous and automatic	of mixing of tempered
			conveyor will lead to stacking	ERCs and quenched
			problem on the conveyor belt of	ERCs and quenched ERCs.
			1 2	
			tempering furnace and also	stacking problem on the
			setting of the present	conveyor belt of
			infrastructure also needs to be	tempering furnace can
			changed which is not possible	be solve by designing

Dagg	Existing provision in CTD of EDC	Modified provision in CTD of EDC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	KDSO's Remarks
No.		(Modification shown in red)		
			keeping space into consideration.	conveyor
			xi) M/s Kalimata Vyapar Pvt.	beltofsufficient length.
			Ltd., Kolkata	
			xii) M/s Nandi Enterprices	
			, Kolkata xiii) M/s Kalimata Ispat	The suggestion of
			Industries Pvt. Ltd.,	separate cooling towers
			Kolkata	with computer graph
			Oil Quenching Tank- Minimum	recorder for quenching
			Oil Quenching Tank capacity	tank has been examined
			should be 20000 Ltrs. The tank	and para has been
				modified.
			should have conveyor belt	
			passing through oil. Facility for	
			cooling the oil by way of heat	
			exchangers along with separate	
			cooling towers with computer	
			graph recorder should be	
			installed such that the	
			temperature of oil does not	
			exceed 70 degree C.	
			The oil quenching followed by	
			tempering process must take	
			place in line. No discontinuity	
			should be allowed between these	
			processes. The transfer of Oil	
			quenched clip to tempering	
			1	
			process must be automatic	
			without any manual intervention.	
			xiv) M/s Pathik Engineering	D : : C (%1)
			Works, Chattisgarh	Provision of filter in
			Provision of filter in quenching	quenching tank will
			tank will not serve any purpose. Scaling of ERCs gets to deposit	help maintain the uniform temperature in
			in the bottom of oil tank	
			therefore regular cleaning of tank	clean the oil
			is sufficient to maintain the	Clean are on
			specified temperature. Transfer	
			of quenched clips to tempering	
			unit may not be automatic	
			because	

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Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			quenched clips are arranged	
			manually on the conveyor before	
			entering in to the tempering	
			furnace and more no. of clips can	
			be accommodated in manual	
			system	
			xv) M/s Prakash Metallic Pvt	
			Ltd. Raipur	
			The process to transfer oil	
			quenched clips to tempering are	
			placed manually by workers so as	
			the heat and air should circulate	
			and pass through clips without	
			any hindrance.	
			The continuous and automatic	
			conveyor will lead to stacking	
			problem on the conveyor belt of	
			tempering furnace and also	
			setting of the present	
			infrastructure also needs to be	
			changed which is not possible	
			keeping space into consideration.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xvi) M/s Adinath Industries	
			INC	
			xvii) M/s R. Rashmi	
			Industries	
			xviii) M/s Swatee Steels	
			xix) M/s Digvijay Steels	
			xx) M/s Ved Kiran Steels	
			xxi) M/s Kamakshi Track	
			Fasteners	
			xxii) M/s Vaishno Mata Track	
			xxiii) M/s Maa Kali Projects	

D	Enisting annotation in CTD of EDC	Madified annuisies in STD of EDC	Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Pvt. Ltd.	
			xxiv) M/s Qualite Steels	
			xxv) M/s M K Corporation,	
			Raigarh	After discussion with
			Quenching oil tank is fitted with	the firms, the provision
			sufficient capacity of heat	of Continuous &
			exchanger and water cooling	automatic transfer of oil
			tower to maintain temperature.	quenched clips to
			Filter will not serve the	tempering furnace has
				been deleted as the
			additional purpose as it gets	present infrastructure
			chocked quite often. Instead, the	restricts the above
			quenching tank should be	provisions and Para has
			cleaned and oil should be	been modified.
			topup/replaced at certain	occii illouilleu.
			intervals.	
			The Process to transfer Oil	
			Quenched Clips to Tempering	
			are placed manually by workers	
			so as the heat and air should	
			circulate and pass-through clips	
			without any hinderance	
			As discussed in the meeting, the	
			Continuous & automatic transfer	
			of oil quenched clips to	
			tempering furnace may also	
			affect the hardness of clips in	
			case the out put of clips from	
			production & quenching	
			decreases due to break down or	
			maintenance in dies.	
			The continuous and automatic	
			conveyor will lead to stacking	
			problem on the conveyor belt of	
			Tempering Furnace and also	
			setting of the present	
			Infrastructure also needs to be	
			changed which is not possible	
			keeping space into consideration.	
			Since it has no relevance to	
			improving the quality or toe load	
			rather affect the hardness and	
			give additional cost burden to	
			MSE units, the Proposal to	
			THE UIIIG, HIC TTOPOSAL TO	

D	Existing provision in CTD of EDC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	<u> </u>	Comments /Suggestions by	RDSO'S Remarks
No.		(Modification shown in red)	stakeholders	
			transfer Oil Quenched Clips to	
			Tempering process automatic and	
			staking clips on conveyor is not	
			possible.	
2 1 1	Tempering furnace: The tempering furnace shall be	Tempering furnace: The tempering furnace	i) M/s Panagarh Engineering	
2.1.1	continuous Electrical tunnel type, fitted with	shall be oil fired tunnel type or gas fired tunnel	works (Patna) Pvt. Ltd.	
2				
	conveyor system. Above furnace shall be fitted with	type or continuous Electrical tunnel type/well	ii) M/s Surya Coach Builders	
	thermo- couples to sense the temperature at three	type, fitted with conveyor system/hanger.	Pvt. Ltd.	
	points along its length to ensure the constant	Above furnace shall be fitted with thermo-	iii) M/s Surya Coach Builders	
	temperature zone along length of the furnace. The	couples to sense the temperature at three points	Pvt. Ltd. Unit II	
	speed of the conveyor should facilitate the clips to be	along its length to ensure the constant	,	
	in tempering furnace for minimum period of 50	temperature zone along length of the furnace.	Fabricators, Faridabad	
	minutes. The furnace shall be fitted with an automatic	The speed of the conveyor should facilitate the	v) M/s Modern Manufactures,	
	temperature control device and continuous	clips to be in tempering furnace for minimum	Panchkula	
	temperature recorder. The furnace shall have an	period of 60 minutes. Each zone of the	vi) M/s Vaishno Mata Track,	
	arrangement for free circulation of hot air	Electrical Furnace should have thyristor based	Faridabad	
		control system to ensure the desired	vii)M/s Fateh Chand Jain,	
		temperature. The furnace shall be fitted with	Faridabad	
		an automatic temperature control device and	viii) M/s MMD Rail	
		continuous temperature recorder. The furnace	Tracks, Panchkula	
		shall have an arrangement for free circulation	ix) M/s Bridge Tracks & Tower	
		of hot air.	Pvt. Ltd	
		of not an.	The tempering furnaces at	The temperature control
			1 0	in the different zones in
			present are Oil Fired/Gas Fired	the Oil Fired/Gas Fired
			tunnel type fitted with conveyor	tempering furnaces is
			system or electric well type.	difficult, which is
			Converting the oil/gas fired	
			tempering furnace into electric	leading to variation in
			tempering furnace is not feasible	the hardness of clip.
			& again needs addition power	Therefore, Electrical
			load connection which will cost	tunnel type / well type
			heavily to MSE units.	with thyristor based
			x) M/s Kalimata Vyapar Pvt.	control system has been
			Ltd., Kolkata	added in the STR to
			xi) M/s Nandi Enterprices ,	ensure the desired
			Kolkata	temperature across the
			xii) M/s Kalimata Ispat	tunnel.
			Industries Pvt. Ltd. ,	
			Kolkata	
			Tempering Furnace should be	
			electrically heated continuous	
			conveyorized type furnace with	
			, , , ,	

D	Existing provision in STD of EDC Modified provision in STD of EDC		Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			thermo couples to sense the	
			temperature at 4 different point	
			along with length of the furnace.	
			The furnace should be controlled	
			with PLC Panel & HDMI	
			Display and the speed of the	
			conveyor should be controlled by	
			variable frequency drive. The	
			furnace shall be fitted with an	
			automatic temperature control	
			device and continuous	
			temperature recorder. The	
			furnace shall have an	
			arrangement for free circulation	
			of hot air.	
			xiii) M/s Pathik Engineering	
			Works, Chattisgarh	
			Agreed with the proposed	
			modifications.	
			Appropriate/adequate period	
			shall be given by RDSO to install	
			the electrical tunnel type	
			tempering furnace. Strict	
			compliance to install this furnace	
			shall be ensured within the given	
			time frame otherwise action	
			should be taken by RDSO to stop	
			theproduction of such approved	
			firms not complying the	
			installation	
			xiv) M/s Prakash Metallic Pvt Ltd. Raipur	Comment as above.
			Although conversion of reheating	
			furnace fromoil/gas to	
			electricfurnace, improves	
			dimensional accuracy of the clip	
			but no suchquality improvement	
			isseen on converting	
			thetempering furnace toelectric.	
			Hardness caneasily be	
			maintained onan oil fired	

D -	Evicting provision in CTD of EDC Modified provision in CTD of EDC		Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			temperingfurnace.	
			A meeting held on 24.01.2025	
			with ERC vendors for	To improve the audit-
			discussion on proposed change in STR, comments of firms	To improve the quality of ERC, continuous
			received after meeting are as	Electrical tunnel type
			follows:	furnace isrequired.
			xv) M/s Adinath Industries	Para has been modified.
			INC	
			xvi) M/s R. Rashmi	Hence the comments
			Industries	of the firms are not
			xvii) M/s Swatee Steels	accepted.
			xviii) M/s Digvijay Steels	
			xix) M/s Ved Kiran Steels	
			xx) M/s Kamakshi Track	
			Fasteners	
			xxi) M/s Vaishno Mata Track	
			xxii) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxiii) M/s Qualite Steels	
			xxiv) M/s M K Corporation,	
			Raigarh	
			The tempering Furnaces at	
			present are Oil fired/Gas Fired	
			tunnel type fitted with Conveyor system or Electric well type.	
			Converting the Oil/Gas fired	
			tempering furnaces into Electric	
			Tempering furnace is not feasible	
			and again needs addition power	
			load connection which will cost	
			heavily to MSE units.	
			The tempering Furnaces Oil	
			fired/Gas Fired tunnel type fitted	
			with Conveyor system or Electric	
			well type should remain to be	
			continued. The range of hardness should be	
			with tolerance from 40-44 HRC	
			±2 HRC	
			-2 IIIC	

to Letter no. CT/EF/Dev David Evicting provision in STD of EDC Modified provision in STD of EDC Comments (Suggestions by				
Para No.	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	RDSO's Remarks
			Electric tunnel type tempering	
			furnace can be made optional.	
2.1.1	Magnetic particle crack detector as per IS: 3703:2004	Magnetic particle crack detector as per IS:	i) M/s Panagarh Engineering	
3	shall be available for crack detection in raw material	3703:2004 shall be available for crack	works (Patna) Pvt. Ltd.	
	cut bars, before using them in production	detection in raw material cut bars, before using	ii) M/s Surya Coach Builders	
		them in production	Pvt. Ltd.	
			iii) M/s Surya Coach Builders	
			Pvt. Ltd. Unit II	
			iv) M/s Siddhartha Metal	
			Fabricators, Faridabad	
			v) M/s Modern Manufactures,	
			Panchkula	
			vi) M/s Vaishno Mata Track,	
			Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
			Since Magnetic particle crack is	This aspect has
			a raw material defect & generated	already been
			due to rolling of bars hence it	discussed atvarious
			should be made mandatory to	forums.
			steel producers instead on us.	
			However, we shall continue to	However, the issue
			perform the test as per given	raised by the firmshas
			sample plan IS:2500 table 2A	been examined. No
			AQL 1.5%.	changes in the para
			x) M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	are warranted.
			xi) M/s Nandi Enterprices ,	
			Kolkata	
			xii)M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata Magnetia Portiala Creak	
			Magnetic Particle Crack Detection Machine- 100% Crack	
			detection of raw material of ERC	
			MK-V & MK-lll should be in the	
			scope of raw material	
1			manufacturer and it should not be	
			in the scope of ERC	

No. (Modification shown in red) Manufac xiii) M/s Wo Compliat of rolled the raw along wi their pre this rega ERC ap procuren Random rolled be surface a length, h		
Manufac xiii) M/s Wo Complian of rolled the raw along wi their pre this rega ERC ap procuren Random rolled be surface length, h	rks, Chattisgarh nce of 100% MPI testing bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in ard shall be provided to proved vendor during nent of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. to be done by ERC	
xiii) M/s Wo Complian of rolled the raw along wi their pre this rega ERC ap procuren Random rolled be surface of length, h	rks, Chattisgarh nce of 100% MPI testing bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in and shall be provided to oproved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short eat-wise segregation etc. to be done by ERC	
xiii) M/s Wo Complian of rolled the raw along wi their pre this rega ERC ap procuren Random rolled be surface of length, h	rks, Chattisgarh nce of 100% MPI testing bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in and shall be provided to oproved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short eat-wise segregation etc. to be done by ERC	
Wo Complian of rolled the raw along wi their pret this rega ERC ap procuren Random rolled be surface length, h	rks, Chattisgarh nce of 100% MPI testing bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in and shall be provided to proved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. to be done by ERC	
Compliant of rolled the raw along with their present this regard ERC approcured Random rolled be surface of length, h	bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in and shall be provided to proved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. to be done by ERC	
of rolled the raw along wi their pre this rega ERC ap procuren Random rolled be surface of	bars shall be ensured by material manufacturer th other specified tests at mises. Test certificate in and shall be provided to proved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. to be done by ERC	
the raw along wi their prethis regal ERC approcuren Random rolled be surface alength, h	material manufacturer th other specified tests at mises. Test certificate in and shall be provided to proved vendor duringment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. to be done by ERC	
along wi their pre this rega ERC ap procuren Random rolled be surface length, h	th other specified tests at mises. Test certificate in and shall be provided to oproved vendor duringment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. so be done by ERC	
their prethis regaler ERC approcurent Random rolled be surface of length, h	mises. Test certificate in and shall be provided to opproved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short leat-wise segregation etc. to be done by ERC	
this regated ERC approcured Random rolled by surface of length, h	ard shall be provided to opproved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short leat-wise segregation etc. so be done by ERC	
ERC ap procuren Random rolled be surface a length, h	oproved vendor during ment of rolled bars. checking of procured ars for crack detection, defect, chemistry, short leat-wise segregation etc. so be done by ERC	
procuren Random rolled be surface length, h	nent of rolled bars. checking of procured ars for crack detection, defect, chemistry, short leat-wise segregation etc. so be done by ERC	
Random rolled by surface of length, h	checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. so be done by ERC	
Random rolled by surface of length, h	checking of procured ars for crack detection, defect, chemistry, short teat-wise segregation etc. so be done by ERC	
rolled be surface of length, h	ars for crack detection, defect, chemistry, short eat-wise segregation etc. so be done by ERC	
surface of length, h	defect, chemistry, short leat-wise segregation etc. so be done by ERC	
length, h	eat-wise segregation etc. to be done by ERC	
	so be done by ERC	
		I
	should be reported to	
	by ERC manufacturers	
along		
	porting documents and	
photogra		
	Prakash Metallics Pvt.	
Ltd., Ra		
	stem is already available	
on which	h bar is pushed by the	
workers.	which maintain the	
length,an	nd end squareness of	
each bar.		
	zed feederreduces the	
endsquar		
	srejections due to	
	gth cut by the feeder,	
thereby	reducingproduction	
capacity.		
	ing held on 24.01.2025	
	ERC vendors for	
	on on proposed change	•
	, comments of firms	
	after meeting are as	discussed in different
follows:		forums.
	Adinath Industries	
INC		

Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.	Zanovang provision in 2 rat of Zate	(Modification shown in red)	stakeholders	11200 5 11011111 115
			xv)M/s R. Rashmi Industries	However, the issue
			xvi) M/s Swatee Steels	raised by the firms has
			xvii) M/s Digvijay Steels	been examined. No
			xviii) M/s Ved Kiran Steels	changes in the para
			xix) M/s Kamakshi Track	are warranted.
			Fasteners	
			xx) M/s Vaishno Mata Track	
			xxi) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxii) M/s Qualite Steels	
			xxiii) M/s M K Corporation,	
			Raigarh	
			Since Magnetic particle crack is a	
			raw material defect & generated due to rolling of bars hence it	
			should be made mandatory to	
			Steel producers instead on us.	
			However, we shall continue to	
			perform the test on Maximum of	
			02 pcs per heat instead of 100%	
			which is neither feasible nor required.	
2.1.1	New Para Added	Material handling: The clip manufacturer	i) M/s Panagarh Engineering	
4		must have facility of EOT, Fork lift or	works (Patna) Pvt. Ltd.	
		conveyor system for transfer of Raw Material/	ii) M/s Surya Coach Builders	
		In-process/ Finished Product	Pvt. Ltd.	
			iii) M/s Surya Coach Builders Pvt. Ltd. Unit II	
			iv) M/s Siddhartha Metal	
			Fabricators, Faridabad	
			v) M/s Modern Manufactures,	
			Panchkula	
			vi) M/s Vaishno Mata Track, Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
				Da == 20 af 45

D -			Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			EOT crane needs Shed of	
			sufficient capacity to bear the	
			load, Fork lift or any conveyor	Comments of the firm
			system needs space to move and	have been examined
			cannot be implemented.	and para has been
			x) M/s Kalimata Vyapar Pvt.	modified.
			Ltd., Kolkata	
			xi) M/s Nandi Enterprices ,	
			Kolkata	
			xii)M/s Kalimata Ispat	
			Industries Pvt. Ltd. ,	
			Kolkata	
			Material Handling- Agreed as per	
			draft Item Specific Guideline and	
			Schedule Technical	
			Requirements.	
			xiii) M/s Prakash Metallic Pvt	
			Ltd. Raipur Existing Hydro-	
			Existing Hydro- Copyingmachines cannot befitted	
			with sucharrangements nor	
			will sucharrangements nor willthis arrangementimprove	
			quality of thematerial	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xiv) M/s Adinath Industries	
			INC	
			xv)M/s R. Rashmi Industries	
			xvi) M/s Swatee Steels	
			xvii) M/s Digvijay Steels	
			xviii) M/s Ved Kiran Steels	
			xix) M/s Kamakshi Track	
			Fasteners	
			xx) M/s Vaishno Mata Track	
			xxi) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxii) M/s Qualite Steels	
			AAII) IVI/S Quainte Steels	

Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
	Existing provision in 51 K of EKC	(Modification shown in red)	stakeholders	RD50 s Remarks
No.		(Mounication shown in reu)		
			xxiii) M/s M K Corporation,	
			Raigarh	
			EOT crane needs Shed of	
			sufficient capacity to bear the	
			load, Fork lift or any conveyor	
			system needs space to move and	
			cannot be implemented	
			It has no quality driven measure	
			and has no relevance to achieve	
			the toe load, hardness, or flat	
			bearing Area. Hence it should be	
			kept optional on the basis of	
			individuals requirement.	
2.1.1	New Para Added	A small in-process checking room having	i) M/s Panagarh Engineering	Recently, during
5		surface plate height gauge, vernire calipers,	works (Patna) Pvt. Ltd.	inspection of various
		hardness testing machine & toe load testing	ii) M/s Surya Coach Builders	firms of ERC, it was
		arrangement should be available near the	Pvt. Ltd.	observed that the
		manufacturing area for conducting the in-	iii) M/s Surya Coach Builders	separate in-process
		process check of ERCs	Pvt. Ltd. Unit II	inspection room is
		1	iv) M/s Siddhartha Metal	necessary for better
			Fabricators, Faridabad	quality control during
			v) M/s Modern Manufactures,	production.
			Panchkula	production.
				However, the
			vi) M/s Vaishno Mata Track,	· · · · · · · · · · · · · · · · · · ·
			Faridabad	comments of the firm
			vii)M/s Fateh Chand Jain,	have been examined
			Faridabad	and para has been
			viii) M/s MMD Rail	modified.
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
			Inspection Room equipped with	
			Hardness Tester, Toe load testing	
			equipment, surfacePlate, height	
			Gauge, vernier calipers etc are	
			available near the manufacturing	
			area itself.	
			x) M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	
			*	
			Kolkata	
			xii)M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	

_	to Letter no. CT/EF/Dev			
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			xiii) M/s Pathik Engineering Works,	
			Chattisgarh	
			Agreed, this facility may be	
			arranged	
			xiv) M/s Prakash Metallic Pvt	
			Ltd. Raipur	
			Inspection Room equipped with	
			Hardness Tester, Toe load testing	
			equipment, surfacePlate, height	
			Gauge, vernier calipers etc are available near the manufacturing	
			area itself.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xv) M/s Adinath Industries INC	
			xvi) M/s R. Rashmi	
			Industries	
			xvii) M/s Swatee Steels	
			· · · · · · · · · · · · · · · · · · ·	
			xviii) M/s Digvijay Steels	
			xix) M/s Ved Kiran Steels	
			xx) M/s Kamakshi Track	
			Fasteners	
			xxi) M/s Vaishno Mata Track	
			xxii) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxiii) M/s Qualite Steels	
			xxiv) M/s M K Corporation,	
			Raigarh	
			Inspection Room equipped with	
			Hardness Tester, Toe load testing	
			equipment, surface plate, height	

	to Letter no. C1/EF/Do			
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Gauge, vernier calipers etc shall	
			be made available near the	
			manufacturing area within 20 sq	
			mts of Manufacturing area.	
2.1.1	New Para Added	The clip manufacturer must have facility of	i) M/s Panagarh Engineering	The comments of the
6		power back up of sufficient capacity to support	works (Patna) Pvt. Ltd.	firm has been
"		tempering furnace up to minimum 1 hour	ii) M/s Surya Coach Builders	examined, and para has
		toniporning running of the minimum r news	Pvt. Ltd.	been modified
			iii) M/s Surya Coach Builders	
			Pvt. Ltd. Unit II	
			iv) M/s Siddhartha Metal	
			Fabricators, Faridabad	
			v) M/s Modern Manufactures,	
			Panchkula	
			vi) M/s Vaishno Mata Track,	
			Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	
			Use of Diesel Generator is	
			banned in DELHI-NCR region	
			except for Hotels, Hospitals or	
			Government Offices.	
			x) M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	
			xi) M/s Nandi Enterprices,	
			Kolkata	
			xii)M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			xiii) M/s Pathik	
			Engineering Works,	
			Chattisgarh	
			Agreed.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	

Doro	Existing provision in STD of EDC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	(Modification shown in red)	stakeholders	KDSO'S Remarks
No.		(Wiodification shown in red)		
			received after meeting are as	
			follows:	
			xiv) M/s Adinath Industries	
			INC	
			xv) M/s R. Rashmi Industries xvi) M/s Swatee Steels	
			_ ′	
			xvii) M/s Digvijay Steels	
			xviii) M/s Ved Kiran Steels	
			xix) M/s Kamakshi Track	
			Fasteners	
			xx) M/s Vaishno Mata Track	
			xxi) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxii) M/s Qualite Steels	
			xxiii) M/s M K Corporation,	
			Raigarh	
			Use of Diesel Generator is	
			banned in DELHI-NCR region	
			except for Hotels, Hospitals or	
			Government Offices.	
			Power Back-up should be	
			optional as per the individual's	
			requirement and unless supported	
2.2	TESTING EACH ITIES, All managing and testing a	avimments shall be installed in a semanate laborate	by the respective Industrial area.	on and manager rentileted
2.2	TESTING FACILITIES: All measuring and testing e and provided with easily maintainable floor and platfor		ory room, which shall be well hi, clea	an and properly ventilated
2.2.1	Chemical Testing: Optical emission spectrometer		i) M/s Panagarh Engineering	
	should be available in the laboratory for carrying out	spectrometer should be available in the	works (Patna) Pvt. Ltd.	
	chemical analysis to determine the carbon, sulphur,	laboratory for carrying out chemical analysis	ii) M/s Surya Coach Builders	
	phosphorous, silicon and manganese percentage in	to determine the carbon, sulphur, phosphorous,	Pvt. Ltd.	
	the materialelse the firm should possess a no	silicon and manganese percentage in the	iii) M/s Surya Coach Builders	
	objection certificate from RDSO for carrying out	material else the firm should possess a no	Pvt. Ltd. Unit II	
	chemical analysis of material spectrographically from	objection certificate from RDSO for carrying	iv) M/s Siddhartha Metal	
	RDSO approved / accredited by Accreditation agency	out chemical analysis of material	Fabricators, Faridabad	
	/ Government owned spectro source as and when	spectrographically from RDSO approved /	v) M/s Modern Manufactures,	
	required by them within specified time frame. In such	accredited by Accreditation agency /	Panchkula T	
	case, distance of spectro lab from firm work firm's	Government owned spectro source as and when required by them within specified time	vi) M/s Vaishno Mata Track,	
	works site should preferably not be more than 100km	when required by them within specified time frame. In such case, distance of spectro lab	Faridabad	
	for sake of smooth working / inspection. In case,	from firm work firm's works site should	vii)M/s Fateh Chand Jain,	
	Spectrometer is provided by the Firm	HOM HEM WORK HEM S WORKS SITE Should	Faridabad	

D	Existing provision in CTD of EDC	Modified provision in CTD of EDC	Comments (Suggestions by	RDSO's Remarks
Para	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by	KDSO's Remarks
No.			stakeholders	
	thenSpectrometer should be maintained and used as	preferably not be more than 100km for sake of	viii) M/s MMD Rail	
	per the recommended manual / procedures of OEM	smooth working / inspection. In case, Spectrometer is provided by the Firm	Tracks, Panchkula	
	like using recommended grade of Argon gas with	In case, Spectrometer is provided by the Firm	ix)M/s Bridge Tracks & Tower	
	argon flushing system, sample preparation facility, air	then Spectrometer should be maintained and	Pvt. Ltd	
	conditioned room etc. Spectrometer shall be	used as per the recommended manual /	Spectrometer is a sensitive	The
	standardized as per the operation manual of the manufacturer of the instrument. In addition, Standard	procedures of OEM like using recommended grade of Argon gas with argon flushing	instrument and attracts heavy	The spectrometer is required to ascertain the
	sample i.e. certified reference material (CRM) shall	system, sample preparation facility, air	cost of approx. 25 lacs. Unless it is utilized regularly on	chemical composition
	be available with the lab to confirm that	conditioned room etc. Spectrometer shall be	daily basis the instrument go into	of the clips.
	standardization is correct. Also, Laboratory must be	standardized as per the operation manual of the	error mode and every time	of the clips.
	in possession of certified standard samples (CRM) in	manufacturer of the instrument. In addition,	service engineer is required to	Hence the comments of
	the close range of chemical composition of ERC. The	Standard sample i.e. certified reference	resolve the issue which is quite	the firms are not
	Spectrometer should be calibrated by OEM regularly.	material (CRM) shall be available with the lab	cost driven and frustrating job.	accepted.
	In case, inspecting official wants to carry out the test	to confirm that standardization is correct. Also,	Every Industrial area is	-r
	from outside, for various reason, then the test can be	Laboratory must be in possession of certified	facilitated with NABL accredited	
	conducted in spectro sources owned by Govt. /	standard samples (CRM) in the close range of	lab.	
	accredited by Accreditation agency as per extant	chemical composition of ERC. The	We need to do very few pcs	
	guidelines issued by RDSO.	Spectrometer should be calibrated by OEM	tested for spectro per heat.	
		regularly. In case, inspecting official wants to	In view of the above the spectro	
		carry out the test from outside, for various	test facility should remain to be	
		reason, then the test can be conducted in	continued as earlier	
		spectro sources owned by Govt. / accredited by	xxiv) M/s Kalimata Vyapar	
		Accreditation agency as per extant guidelines	Pvt. Ltd. , Kolkata	
		issued by RDSO.	xxv) M/s Nandi	
			Enterprices, Kolkata	
			xxvi) M/s Kalimata Ispat	
			Industries Pvt. Ltd. ,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			xxvii) M/s Pathik	
			Engineering Works, Chattisgarh	
			In case the firm is having two	
			approved units of ERCs under	
			the same ownership situated	
			nearby i.e. not more than 10 Km.	
			distance and spectrometer	
			approved by RDSO is available	
			at its one unit only then the firm	
			may be allowed for	
			spectrographic testing of Clips &	
			rolled bars at its approved unit	

Davis	Existing provision in STD of EDC Modified provision in STD of EDC		Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			where specified & approved	
			spectrometer is available. This	
			aspect will be mentioned in the	
			approved Quality Assurance	
			Programme (QAP) of the firm	
			not having the Spectrometer at	
			their works.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as	
			follows:	
			xxviii) M/s Adinath	
			Industries INC	
			xxix) M/s R. Rashmi	
			Industries	
			xxx) M/s Swatee Steels	
			xxxi) M/s Digvijay Steels	
			xxxii) M/s Ved Kiran Steels	
			xxxiii) M/s Kamakshi Track	
			Fasteners	
			xxxiv) M/s Vaishno Mata	
			Track	
			xxxv) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxxvi) M/s M K Corporation,	
			Raigarh	
			Spectrometer is highly	
			sophisticated and sensitive	
			instrument and attracts heavy	
			cost of approx. 25 lacs.	
			Unless it is utilized regularly on	
			daily basis the instrument go into	
			error mode and every time	
			service engineer is required to	
			resolve the issue which is quite	
			cost driven and frustrating job.	
			Every Industrial area is	

Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
	Hardness tester: Two hardness testing machines of same method (Rockwell Hardness) along with standard test blocks with certificate should be available in the firm's laboratory to test the hardness of raw and finished material. Hardness of Standard test blocks should be in close range of hardness of raw and finished material. The calibration of hardness testing machines should be done through Govt. Approved / Accredited labs.	Hardness tester: Two motorized digital hardness testing machines of same method (any of Vickers Hardness / Brinell Hardness / Rockwell Hardness) along with standard test blocks with certificate should be available in the firm's laboratory to test the hardness of raw and finished material. Hardness of Standard test blocks should be in close range of hardness of raw and finished material. The calibration of hardness testing machines should be done through Govt. Approved / Accredited labs.	Pvt. Ltd. Unit II iv) M/s Siddhartha Metal Fabricators, Faridabad v) M/s Modern Manufactures, Panchkula	The comments of the firm have been examined and para has

D	Existing provision in STD of EDC Modified provision in STD of EDC		Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Motorized Digital Rockwell	
			hardness tester has no additional	
			benefits.	
			x) M/s Pathik Engineering	
			Works, Chattisgarh	
			Option of manually operated hardness testing machine should	
			also be there as it takes	
			approximately same time in	
			measurement.	
			xi) M/s Prakash Metallic Pvt	
			Ltd. Raipur	
			Two nos. of Rockwell hardness	
			tester with standard test block are	
			available.	
			Motorized Digital Rockwell	
			hardness tester has no additional	
			benefits.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as follows:	
			xii) M/s Adinath Industries	
			INC	
			xiii) M/s R. Rashmi	
			Industries	
			xiv) M/s Swatee Steels	
			xv) M/s Digvijay Steels	
			xvi) M/s Ved Kiran Steels	
			xvii) M/s Kamakshi Track	
			Fasteners	
			xviii) M/s Vaishno Mata	
			Track	
			xix) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xx) M/s Qualite Steels	
			xxi) M/s M K Corporation,	
			Raigarh	

D	E-isting amorising in CTD of EDC	TO Letter no. C1/Er/Dev		
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Two nos. of Rockwell hardness	
			tester with standard test block are	
			available.	
			Motorized Digital Rockwell	
			hardness tester has no additional	
			benefits and we cannot make our	
			existing machines scrap.	
			Motorized Digital Rockwell	
			hardness tester is personal choice	
			and has no quality implication on	
			our product hence should be kept	
			as optional on individuals'	
			choice.	
2.2.3	Proving ring: Two proving rings of sufficient	Proving ring: Two proving rings of sufficient	i) M/s Kalimata Vyapar Pvt.	No Change proposed in
	capacity should be available for use with the toe load	capacity should be available for use with the	Ltd., Kolkata	this para.
	test arrangement available in laboratory. These	toe load test arrangement available in	ii) M/s Nandi Enterprices,	-
	should be duly calibrated through National Physical	laboratory. These should be duly calibrated	Kolkata	
	Laboratory / NTH approved laboratory or through	through National Physical Laboratory / NTH	iii) M/s Kalimata Ispat	
	Labs Accredited by Accreditation agency as per	approved laboratory or through Labs	Industries Pvt. Ltd.,	
	extant guidelines issued by RDSO.	Accredited by Accreditation agency as per	Kolkata	
	exam gardennes issued by RESS.	extant guidelines issued by RDSO.	Not required as proving rings are	
		extant guidennes issued by RDSO.	calibrated time to time by OEM	
			and supplier.	
2.2.4	To be 14 of a successful to 1 of 4	T-1-14.4.4.5.	* *	
2.2.4	Toe load testing arrangement: For toe load testing,	Toe load testing arrangement: For in-process	i) M/s Panagarh Engineering	
	arrangement as per RDSO drawing should be	toe load testing, arrangement as per RDSO	works (Patna) Pvt. Ltd.	
	available at the works. Toe load be measured through	drawing should be available at the works. OR	ii) M/s Surya Coach Builders	
	UTM machine of sufficient capacity (LC-10kg) with	Final Toe load can also should be measured	Pvt. Ltd.	
	suitable arrangement duly calibrated through test labs	through UTM machine of sufficient capacity	iii) M/s Surya Coach Builders	
	Govt. approved or Accredited by Accreditation	(LC-10kg) with suitable arrangement duly	Pvt. Ltd. Unit II	
	agency as per extant guidelines issued by RDSO	calibrated through test labs Govt. approved or	iv) M/s Siddhartha Metal	
		Accredited by Accreditation agency as per	Fabricators, Faridabad	
		extant guidelines issued by RDSO	v) M/s Modern Manufactures,	
		·	Panchkula	
			vi) M/s Vaishno Mata Track,	
			Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd	C
			Toe Load testing arrangement is	Comments of the firm
			available as per RDSO drawing	have been examined

Para No. Existing provision in STR of ERC Modified provision in STR of ERC Comments /Sugge stakeholders	Vyapar Pvt. Enterprices, Ispat Ltd., I final toeload and comments are under: Recently, du inspection of var firm's ERCs, it observed that majority of the Expansion of the Ex
for in process and test. x) M/s Kalimata Ltd., Kolkata xi) M/s Nandi Kolkata	Vyapar Pvt. Enterprices, Enterprices, Ispat Ltd., under: Recently, du inspection of var firm's ERCs, it observed that majority of the Experiments.
test. x) M/s Kalimata Ltd., Kolkata xi) M/s Nandi Kolkata	Vyapar Pvt. Enterprices, Enterprices, Ispat Ltd., under: Recently, du inspection of var firm's ERCs, it observed that majority of the Experiments.
x) M/s Kalimata Ltd., Kolkata xi) M/s Nandi Kolkata	Vyapar Pvt. Recently, du inspection of var firm's ERCs, it observed that majority of the E.
Ltd. , Kolkata xi) M/s Nandi Kolkata	Enterprices, Recently, du inspection of var firm's ERCs, it observed that majority of the E
xi) M/s Nandi Kolkata	Enterprices, inspection of var firm's ERCs, it observed that majority of the E
Kolkata	firm's ERCs, it observed that majority of the E
vii)M/s Kalimata)	Ltd., majority of the E
All jill jo Rullillata	
Industries Pvt.	
Kolkata	failed in the toe load
Acceptable as po	
Specific Guideline	
xiii) M/s Prakash	
Ltd. Raipur	load test using pro-
Toe Load testing a available as per R	
for in process and	
test. UTM mac	
required to measure	
A meeting held of	1
	vendors for their ERC for
discussion on pro	
in STR, comme	
received after m	eeting are as official du
follows:	inspection.
xiv) M/s Adinath	
INC	Hence the comment
xv)M/s R. Rashmi	
xvi) M/s Swatee S	steels accepted.
xvii)M/s Digvijay	Steels
xviii) M/s Ved 1	Kiran Steels
xix) M/s Kamaksl	hi Track
Fasteners	
xx) M/s Vaishno	Mata Track
xxi) M/s Maa Kal	i Projects
Pvt. Ltd.	
xxii) M/s Qualite S	Steels
	Corporation,
Raigarh	1
Toe Load testing a	arrangement is
available as per R	
for in process and	

D	Existing provision in STD of EDC Modified provision in STD of EDC		Comments (Suggestions by	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			test.	
			UTM machine for final toe load	
			test shall be kept optional as the	
			RDSO based drawing toe load	
			arrangement is quite efficient to	
			measure toe load on ERC hence	
			no change is required.	
2.2.5	Gauges and application & deflection test fixture:	Gauges and application & deflection test	i) M/s Panagarh Engineering	This is the mandatory
2.2.5	Two sets of valid approved Inspection gauges (for	fixture: Two sets of valid approved Inspection	works (Patna) Pvt. Ltd.	provision in the
	dimension checking) and application & deflection test	gauges (for dimension checking) and	ii) M/s Surya Coach Builders	specification.
	fixtures as per RDSO drawing should be available at	application & deflection test fixtures as per		Hence, the comments of
			Pvt. Ltd.	
	the firms' premises. Angle-checking fixtures as per	RDSO drawing should be available at the	,	
	RDSO drawing should also be available.	firms' premises. Angle-checking fixtures as	Pvt. Ltd. Unit II	accepted
		per RDSO drawing should also be available.	, , , , , , , , , , , , , , , , , , ,	
		Sufficient capacity Hydraulic/Mechanical	Fabricators, Faridabad	
		press of for conducting the application &		
		deflection test should be available.	Panchkula	
			vi) M/s Vaishno Mata Track,	
			Faridabad	
			vii)M/s Fateh Chand Jain,	
			Faridabad	
			viii) M/s MMD Rail	
			Tracks, Panchkula	
			ix) M/s Bridge Tracks & Tower	
			Pvt. Ltd.	
			Two Sets of RDSO approved	
			Inspection Gauges are available	
			Angle checking Fixturesas per	
			RDSO drawing is available.	
			Application and deflection test	
			could be performed either ways	
			by manually or through	
			hydraulic/mechanical press.	
			x) M/s Kalimata Vyapar Pvt.	
			Ltd., Kolkata	
			xi) M/s Nandi Enterprices,	
			Kolkata	
			xii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
			xiii) M/s Pathik	

		to Letter no. CT/EF/Dev dated.02.2025		
Para No.	Existing provision in STR of ERC	Modified provision in STR of ERC (Modification shown in red)	Comments /Suggestions by stakeholders	RDSO's Remarks
110.		(Engineering Works,	
			Chattisgarh	
			Provision of	
			Hydraulic/Mechanical press for	
			Application & Deflection test of	
			Clips is agreed. However,	
			hydraulic press will be better	
			option.	
			A meeting held on 24.01.2025	
			with ERC vendors for	
			discussion on proposed change	
			in STR, comments of firms	
			received after meeting are as follows:	
			xiv) M/s Adinath Industries	
			INC	
			xv)M/s R. Rashmi Industries	
			xvi) M/s Swatee Steels	
			xvii) M/s Digvijay Steels	
			xviii) M/s Ved Kiran Steels	
			xix) M/s Kamakshi Track	
			Fasteners	
			xx) M/s Vaishno Mata Track	
			xxi) M/s Maa Kali Projects	
			Pvt. Ltd.	
			xxii) M/s Qualite Steels	
			xxiii) M/s M K Corporation,	
			Raigarh	
			Two Sets of RDSO approved	
			Inspection Gauges are available	
			Angle checking Fixtures as per RDSO drawing is available.	
			Checking of Inspections gauges	
			can be done more frequently in	
			order to ensure proper	
			dimensions.	
			Application and deflection test	
			continued to be performed either	
			ways by manually or through	
			hydraulic/mechanical press.	
			Since mostly the ERCs are fixed	

D-	to Letter no. C1/EF/Dev dated.02.2025			
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			manually in our Indian track	
			system with the help of hammer,	
			it is always recommended to	
			perform test in our units	
			manually through hammer as it	
			works in similar manner as it is	
			driven on track. Any breakage	
			reported can be found in our	
			units itself and while using	
			presses it doesn't give that	
			required results.	
			Hence either of the ways to	
			perform application and	
			deflection test shall be continued	
			to be in use as per individuals'	
			choice.	
2.2.6	Microscope & Polishing machine: A duly calibrated	Microscope & Polishing machine: A duly	i) M/s Kalimata Vyapar Pvt.	Comments of the firm
	metallurgical microscope with 100x, 500x, 1000x	calibrated metallurgical microscope with 100x,	Ltd., Kolkata	have been accepted
	magnification with a photographic attachment and	500x, 1000x magnification with a	ii) M/s Nandi Enterprices,	_
	measuring facility should be available in the	photographic attachment and measuring	Kolkata	
	laboratory. The polishing machine with all necessary	facility should be available in the laboratory.	iii) M/s Kalimata Ispat	
	items like diamond paste etc. shall be available to	The polishing machine with all necessary	Industries Pvt. Ltd.,	
	prepare and check samples for inclusion rating, depth	items like diamond paste etc. shall be available	Kolkata	
	of decarburization, grain size and microstructure	to prepare and check samples for inclusion	Acceptable as per draft Item	
		rating, depth of decarburization, grain size and	Specific Guideline and STR	
		microstructure	1	
2.2.7	Inclusion rating and grain size charts: Necessary	Inclusion rating and grain size charts:	i) M/s Kalimata Vyapar Pvt.	Comments of the firm
	charts for reading inclusion rating and grain size also	Necessary charts for reading inclusion rating	Ltd., Kolkata	have been accepted
	should be available in the laboratory as mentioned in	and grain size also should be available in the	ii) M/s Nandi Enterprices,	1
	the specification of Elastic Rail Clips duly displayed	laboratory as mentioned in the specification of	Kolkata	
	in a glass frame	Elastic Rail Clips duly displayed in a glass	iii) M/s Kalimata Ispat	
		frame	Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	
2.2.8	Tool room cum die making/repair shop facility:	Tool room cum die making/repair shop	i) M/s Kalimata Vyapar Pvt.	Comments of the firm
	All necessary tools and machines such as Surface	facility: All necessary tools and machines such	Ltd., Kolkata	have been accepted
	Grinding Machine, lathe machine, cutting machine,	as Surface Grinding Machine, lathe machine,	ii) M/s Nandi Enterprices,	1
	Drilling Machine and Welding set etc. should be	cutting machine, Drilling Machine and	Kolkata	
	available in the tools room for manufacturing of	Welding set etc. should be available in the	iii) M/s Kalimata Ispat	
	gauges and dies. Optional – Vertical machining	tools room for manufacturing of gauges and	Industries Pvt. Ltd,	
	centre (VMC)	dies. Optional – Vertical machining centre	Kolkata	
		(VMC)	Acceptable as per draft Item	
L	l .	<u> </u>	1 1	

			to Letter no. C1/Er/Dev	
Para	Existing provision in STR of ERC	Modified provision in STR of ERC	Comments /Suggestions by	RDSO's Remarks
No.		(Modification shown in red)	stakeholders	
			Specific Guideline and STR	
2.2.9	Calibration of test equipments: All the test	Calibration of test equipments: All the test	i) M/s Kalimata Vyapar Pvt.	Comments of the firm
	equipments shall be periodically checked and	equipments shall be periodically checked and	Ltd., Kolkata	have been accepted
	calibrated. The frequency of calibration for Hardness	calibrated. The frequency of calibration for	ii) M/s Nandi Enterprices,	
	testing Machine, UTM and proving ring shall be once	Hardness testing Machine, UTM and proving	Kolkata	
	in a year. Inspection gauges and application &	ring shall be once in a year. Inspection gauges	iii) M/s Kalimata Ispat	
	deflection test fixture shall be produced before RDSO	and application & deflection test fixture shall	Industries Pvt. Ltd.,	
	for approval three months in advance before expiry of	be produced before RDSO for approval three	Kolkata	
	approval validity at the time of Quality audit as per	months in advance before expiry of approval	Acceptable as per draft Item	
	ISO guidelines for vendor approval. Details of	validity at the time of Quality audit as per ISO	Specific Guideline and STR.	
	calibration and due date shall normally be displayed	guidelines for vendor approval. Details of		
	on the equipments in the form of stickers issued by	calibration and due date shall normally be		
	the Calibration agency. Calibration of equipments	displayed on the equipments in the form of		
	other than inspection gauges shall be got done from	stickers issued by the Calibration agency.		
	Government laboratory or from labs accredited by	Calibration of equipments other than		
	Accreditation agency as per extant guidelines issued	inspection gauges shall be got done from		
	by RDSO or National Test House (NTH) or Regional	Government laboratory or from labs accredited		
	Test Center (RTC)	by Accreditation agency as per extant		
		guidelines issued by RDSO or National Test		
		House (NTH) or Regional Test Center (RTC)		
2.2.1	Firm shall possess Plant & Machineries detailed in	Firm shall possess Plant & Machineries	i) M/s Kalimata Vyapar Pvt.	Comments of the firm
0	Annexure A and submit details of same on enclosed	detailed in Annexure A and submit details of	Ltd., Kolkata	have been accepted
	format given as Annexure B-I & B-II	same on enclosed format given as Annexure	ii) M/s Nandi Enterprices,	
		B-I & B-II	Kolkata	
			iii) M/s Kalimata Ispat	
			Industries Pvt. Ltd.,	
			Kolkata	
			Acceptable as per draft Item	
			Specific Guideline and STR	