



**Dedicated Freight Corridor Corporation of India Ltd.**  
A Govt. of India Undertaking  
(Ministry of Railways)

**Name of Work:-**“Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) system with TMS and IAMS at New Madar Station of WDFC as per RDSO Specification No. RDSO/SPN/192/2019 Version 2 with latest amendment, execution of indoor and outdoor work of fixing & wiring of MSDAC to meet centralized operation of points & signals etc. as per RE standard along with Indoor system design for signalling installations including supply (part), testing & commissioning of Interlocking of New Madar Station and commissioning of requisite interface between Existing Signal Interlocking (EI System) at adjacent stations New Saradhana & New Kishangarh Station of WDFC with Automatic Block Section Working in New Kishangarh – New Madar and New Madar-New Saradhana Block Section.”

**TWO PACKET OPEN E-TENDER**  
**NOT TRANSFERABLE**

**Tender No.- . DFCC\_AII\_S&T\_NewMadar\_R**

**(Participation through e-Tender only)**

**Visit: [www.ireps.gov.in](http://www.ireps.gov.in) its link at [www.dfccil.com](http://www.dfccil.com)**  
**(Help desk of IREPS: 011-23761525)**

**Financial Bid (Packet-B)**  
**June 2025**

**Dedicated Freight Corridor Corporation of India Ltd.**  
**A 1, Circular Road, Near SP GRP Office,**  
**Kundan Nagar, Ajmer - 305001**

Signature Not  
Verified

Digitally signed by  
KANTI KUMAR  
THAKUR

Date: 2025.06.26  
18:13:28 IST  
Reason: IREPS-CRIS  
Location: New Delhi

Signature of the Tenderer

For CGM, DFCCIL Ajmer

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**General Information/Data Sheet**

1	E-Tender No.	DFCC_AII_S&T_New Madar_R
2	Name of Work	<b>“Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) with TMS and IAMS system at New Madar Station of WDFC as per RDSO Specification No. RDSO/SPN/192/2019 Version 2 with latest amendment, execution of indoor and outdoor work of fixing &amp; wiring of MSDAC to meet centralized operation of points &amp; signals etc. as per RE standard along with Indoor system design for signalling installations including supply (part), testing &amp; commissioning of Interlocking of New Madar Station and commissioning of requisite interface between Existing Signal Interlocking (EI System) at adjacent stations New Saradhana&amp; New Kishangarh Station of WDFC with Automatic Block Section Working in New Kishangarh – New Madar and New Madar-New Saradhana Block Section.”</b>
3	Estimated Cost of Work	<b>Rs.29,05,78,402.00/-</b>
4	Completion Period	<b>12(Twelve) Months.</b> (Signalling Works - 6 months & TMS -12 months from the date of issuance of LOA)
5	Type of BID	Open E-Tender Two Packet
6	Tender Fee	Rs.10,000/- (Rs. Ten Thousand only) + 18 % GST 11,800/- to be paid online through payment gateway provided at <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> Or MSEs registered with a body specified by ministry of MSME for the item tendered are exempted from submission of cost of document, for which, the tenderers will have to upload the exemption certificate on the E-Tender Portal.
7	Earnest Money Deposit (EMD) (Tender Security)	<b>Rs. 16,02,900/</b> OR Bid Security Declaration In lieu of Earnest Money: Contractor to submit Bid Security Declaration as per attached Format (Annexure-XI of Tender Document) in lieu of Earnest Money. Tenders received without Bid Security Declaration shall be summarily rejected. The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per <b>Annexure-VIA</b> and shall be valid for a period of 90 days beyond the bid validity period.
8	Download bid documents from	15:00 Hrs. of 26.06.2025 on <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> .
9	Last date & time of online receipt of bid to	15:00 Hrs. of 18.07.2025 on <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> .
10	Date and time of Online opening of Technical bid	15:30 Hrs. of 18.07.2025 <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> .
11	Validity of offer	90 days from the date of opening of tender.
12	Defect Liability Period	180 days after successful completion of this Contract.

13	Address for Communication	<b>Office of the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd. A1, Circular Road, Near SP GRP Office, Kundan Nagar, Ajmer - 305001</b> Tel: 0145-2970463, Website: <a href="http://www.dfccil.com">www.dfccil.com</a> E-mail:- <a href="mailto:dfccil.ajmer@hotmail.com">dfccil.ajmer@hotmail.com</a>
14	Help Desk for E-Tendering	<b>For any clarification, help and registration for E-Tendering &amp; matter relating to Digital Signature, contact at Help desk of <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> and phone 0145-2970463</b>
15	Availability of Tender Documents	<b>The Tender documents can be downloaded from <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> Tenderer who wishes to view free Notification and Tender Documents can visit <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> DFCCIL may issue Addendum (s)/Corrigendum (s) to the Tender document, if any, which shall be issued at least seven days in advance of date of opening of tender and placed on the website <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> only.</b>

**Note:**

1. Tender documents should be downloaded from the website address <https://www.ireps.gov.in>. Payment of Tender Document fee, in respect of e- tendering, should be accepted through net banking or payment gateway only, before the schedule date and time of submission of the tender otherwise the Bid will not be considered/shall be summarily rejected. The Bid Security (EMD) shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per **Annexure-VIA** and shall be valid for a period of 90 days beyond the bid validity period.
2. Fixed Deposit Receipt (FDR) will not be accepted as EMD for tender invited on IREPS (e-tenderportal). The tender document are also available on official website of DFCCIL i.e. [www.dfccil.com](http://www.dfccil.com)
3. No tender document will be available offline. Downloading tender documents online and submission of tender online is mandatory for this tender.
4. No request for extension of the Tender Due Date shall be considered.
5. The Offer shall be valid for 90 days from the date of opening of the tender, and extended further if required from time to time. The Contractor cannot withdraw their offer within the period of validity/extended validity lest liable for forfeiture of Earnest Money Deposit (Tender Security).
6. Notice Inviting Tender (NIT), Tender Document and Corrigendum/Addendum if any, will be posted on the E Tendering website [www.ireps.gov.in](http://www.ireps.gov.in) Tenderers are advised to complete all submission related work well before Time and Date for Submission of Tender Online. Any request for modification in the time/date of submission of tender due to tenderer's failure to submit his offer, will not be accepted.
7. The tender documents shall be submitted in online mode only through website [www.ireps.gov.in](http://www.ireps.gov.in) in two e- Packets only viz Packet- A containing TECHNICAL BID and Packet- B containing FINANACIAL BID. Detailed credential as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in technical bid.
8. Any further addendum/Corrigendum for this tender will be posted in DFCCIL tendering portal website <https://www.ireps.gov.in> only. Interested bidders are advised to check website regularly for any Addendum/Corrigendum.

**Chief General Manager  
DFCCIL-Ajmer**

Signature of the Tenderer

For CGM, DFCCIL Ajmer

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### Summary of Prices

**Name of Work:-**“Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) system with TMS and IAMS at New Madar Station of WDFC as per RDSO Specification No. RDSO/SPN/192/2019 Version 2 with latest amendment, execution of indoor and outdoor work of fixing & wiring of MSDAC to meet centralized operation of points & signals etc. as per RE standard along with Indoor system design for signalling installations including supply (part), testing & commissioning of Interlocking of New Madar Station and commissioning of requisite interface between Existing Signal Interlocking (EI System) at adjacent stations New Saradhana & New Kishangarh Station of WDFC with Automatic Block Section Working in New Kishangarh – New Madar and New Madar-New Saradhana Block Section.”

Schedule	Description	Value of the Component
1	Supply and Installation of Electronic Interlocking	4,01,07,664.13
2	Supply and Installation of MSDAC	1,46,90,999.59
3	Supply and Installation of PSS	1,20,80,956.99
4	Supply and Installation of TMS	9,49,47,249.12
5	Supply and Installation of IRMS	78,54,124.72
6	Design and Documentation	6,25,33,764.73
7	Integrated Testing and Commissioning	5,83,63,642.72
<b>Grand Total (Schedule 1 to Schedule 7) (incl. GST)</b>		<b>29,05,78,402.00</b>

#### Notes / Conditions:-

1. The above rates are inclusive of all Govt. & Local Taxes (including GST @18%, Labor Cess & Transport). However, GST, will be reimbursed only after having submitted the proof of having actually paid the above taxes/charges.
2. The bidder shall indicate his rate in %age below/above/at par, against each schedule line item on IREPS portal.
3. DFCCIL reserves the right to operate additional quantities of the schedule item as & when required within the variation limit.
4. The Contractor should adhere to **Anti Profiteering Provisions** as per Section 171 of the CGST Act. Incase due to change in the rates of GST/ Change in Law, the Contractor gets any credit / benefits, the same shall be passed on to DFCCIL by way of reduction in prices.

#### ***Declaration by the tenderer***

- 1) *I/We am/are signing this document after carefully reading the content.*
- 2) *I/We also accept all the conditions of the Tender and have signed all the pages in confirmation thereof.*
- 3) *I/We offer and agree to execute the above work at rate uploaded online at <https://www.ireps.gov.in> through digital Signature.*

**Schedule of Approximate Quantities & Rate****Tender No.- DFCC\_AII\_S&T\_NewMadar\_R**

**Name of Work:-**“Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) system with TMS and IAMS at New Madar Station of WDFC as per RDSO Specification No. RDSO/SPN/192/2019 Version 2 with latest amendment, execution of indoor and outdoor work of fixing & wiring of MSDAC to meet centralized operation of points & signals etc. as per RE standard along with Indoor system design for signalling installations including supply (part), testing & commissioning of Interlocking of New Madar Station and commissioning of requisite interface between Existing Signal Interlocking (EI System) at adjacent stations New Saradhana & New Kishangarh Station of WDFC with Automatic Block Section Working in New Kishangarh – New Madar and New Madar-New Saradhana Block Section.”

**Schedule of Works, Quantity and Rate**

SN	Description of Item	Unit	Qty.	Updated Rates	Amount (in INR)
<b>Schedule-1: Supply and Installation of EI</b>					
1	Supply of <b>Electronic Interlocking</b> equipment conforming to RDSO Specification No. RDSO/SPN/192/2019 with latest amendment, complete with items SN 1.1 to 1.8 & their spares @10% and with networking devices & all other associated accessories required for New Madar Station and modification required at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section. <b>Note:</b> The OEM whose Electronic Interlocking has been Cross Approved by DFCCIL shall also be acceptable.				
1.1	Supply of Electronic Interlocking Logic sub-rack, Object Controller complete with Card, Modules, along with spares @10% of supplied qty. and all other associated accessories	System	1	2,18,85,374.59	2,18,85,374.59
1.2	Supply of Prewired Relay Rack	Nos.	2	2,78,725.85	5,57,451.70
1.3	Supply of Relays:				
i	QN1 12F/4B	Nos.	17	5,657.46	96,176.82
ii	QN1 8F/8B	Nos.	22	5,657.46	1,24,464.12
iii	QNN1 4F/4B	Nos.	5	9,193.36	45,966.80
iv	QNN1 6F/2B	Nos.	10	9,193.36	91,933.60
v	QNNA1 4F/4B	Nos.	4	9,193.37	36,773.48
vi	QNNA1 6F/2B	Nos.	5	9,193.36	45,966.80
vii	QBCA1 2F(HD) 4F/4B	Nos.	10	7,071.82	70,718.20
viii	AC Lamp proving relay (QECX) 4F/4B	Nos.	35	6,364.64	2,22,762.40
ix	QNAIK 6F/6B	Nos.	11	6,364.64	70,011.04
x	KLCR, IRS:S46	Nos.	2	9,490.39	18,980.78
1.4	Supply of Miscellaneous Items (Contacts & terminals, Fuses, Pins & connectors etc)	Lot	1	1,92,122.56	1,92,122.56
1.5	Supply of Pre-wired Racks/ subracks	Nos.	1	9,95,552.48	9,95,552.48

SN	Description of Item	Unit	Qty.	Updated Rates	Amount (in INR)
1.6	Supply of Cable Terminal Rack complete with terminal blocks, SPDs and screwless terminals.	Lot	1	11,02,628.08	11,02,628.08
1.7	Supply of EI Terminal & Maintenance Console complete with keyboard, mouse and networking devices.	Nos.	1	34,76,624.32	34,76,624.32
1.8	Supply of Materials for Indoor Installation (MCBs, SPDs, screwless terminal blocks, fuses, jumpers, DVI to HDMI cables, power connectors, RJ45 connectors, monitor mounting bracket, end stoppers, KLM markers, L2 switches, furniture for ASM, PSS & SER Rooms)	Lot	1	77,78,550.76	77,78,550.76
1.9	Installation & earthing of Electronic Interlocking equipment at New Madar Station and modification at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section.	System	1	32,95,605.60	32,95,605.60
	<b>Total Cost of EI Supply and Installation</b>				<b>4,01,07,664.13</b>
<b>Schedule-2: Supply and Installation of MSDAC</b>					
2.1	Supply of MSDAC indoor & outdoor equipment conforming to RDSO Specification No. RDSO/SPN/176/2013 with latest amendment, complete with Card, Modules, Rack, Sub-Rack, Relays, Maintenance Terminal, connecting wires/cables/patch cord, networking equipment, tool kit, manuals and all other associated accessories required for New Madar Station and modification required at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section.	System	1	1,32,48,348.24	1,32,48,348.24
2.2	Installation & earthing of MSDAC indoor & outdoor equipment at New Madar Station and modification at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section.	System	1	14,42,651.35	14,42,651.35
	<b>Total Cost of MSDAC Supply and Installation</b>				<b>1,46,90,999.59</b>
<b>Schedule-3: Supply and Installation of PSS</b>					
3.1	Supply of Power Supply System viz. IPS conforming to RDSO Specification No. RDSO/SPN/165/2023 with latest amendment or UPS with ACDC Converters as installed in WDFC CTP-2 section, complete with Card, Modules, Rack, Sub-Rack, Relays, Battery Bank, connecting wires/cables, Auto Change Over System, tool kit, manuals and all other associated accessories required for New Madar Station and modification required at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section.	System	1	1,18,06,323.19	1,18,06,323.19
3.2	Installation & earthing of Power Supply System complete with Battery Bank at New Madar Station and modification at New Saradhana Station, New Kishangarh Station and New Saradhana - New Kishangarh Block Section.	System	1	2,74,633.80	2,74,633.80
	<b>Total Cost of PSS (Supply and Installation)</b>				<b>1,20,80,956.99</b>
<b>Schedule-4: Supply and Installation of TMS</b>					
4	TMS Hardware & Software and its integration with existing system of CTP-2 section.				

SN	Description of Item	Unit	Qty.	Updated Rates	Amount (in INR)
4.1	Supply of TMS Hardware, Terminals (redundant) for ASM & JE, racks, power distribution unit, FIUs, cable/ connectors and all other associated accessories.	Lot	1	22,54,563.12	22,54,563.12
4.2	TMS Software, installation, earthing, Testing and commissioning	LS	1	9,26,92,686.00	9,26,92,686.00
	<b>Total cost of TMS Hardware + Software</b>				<b>9,49,47,249.12</b>
<b>Schedule-5: Supply and Installation of IAMS</b>					
5	IAMS Hardware & Software and its integration with existing system of CTP-2 section.				
5.1	IAMS Hardware	Lot	1	37,95,139.94	37,95,139.94
5.2	IAMS Installation, Testing and Commissioning	Lot	1	40,58,984.78	40,58,984.78
	<b>Total Cost of IRMS Hardware and installation</b>				<b>78,54,124.72</b>
<b>Schedule-6: Design and Documentation</b>					
6	Design & Documentation (SIP, RCT, EI Wiring Diagram, MSDAC Wiring Diagram, CTR Details, SWR & SWRD, IRMS design documents, Power Supply System design documents, Configuration data, parameter setting documents and As-built documents)	LS	1	6,25,33,764.73	6,25,33,764.73
<b>Schedule-7: Integrated Testing and Commissioning</b>					
7	Integrated Testing (FAT & SAT) & Commissioning	LS	1	5,83,63,642.72	5,83,63,642.72
	<b>Grand Total</b>				<b>29,05,78,401.88</b>

Bidder (s) Please Note the following:

- The bidder shall indicate his rate in %age below/above/at par, on total estimated cost for above schedule of rates on IREPS portal.
- For Payment stages and terms refer para 2.0 of section-5.

**Notes:**

- Items with RDSO specification to be procured from RDSO approved sources and inspection of the same will be carried out by RDSO. For items procured from other than RDSO approved sources, will be inspected by consignee or third party lab or third party inspection agency.
- Payment against supply items will be released after receipt of material as per approved design and inspection by concerned agency.
- Payment against execution items will be released after completion of work and its certification by DFCCIL Site representative.
- Payment against Design items will be released after approval of design by DFCCIL representative.
- The Contractor will be required to submit detailed BoQ of items to supplied for the work.
- The final bill for the balance payment shall be submitted by the contractor along with "No Claim Certificate".



**END OF TENDER DOCUMENT**